

2017

FACULTY *Symposium*

— on —

Teaching, Learning,
Research & Creative Works

Thursday, March 2, 2017 *from* 3:00 PM – 6:30 PM
UMass Lowell Inn & Conference Center
50 Warren Street
Lowell, MA 01854

• Research Lightning Talks • Teaching Lightning Talks •

• Interactive Demonstration of Digital Measures •

Keynotes from:

Dr. Stephen Pennell

Recipient of the 2016 Manning Prize for Excellence in Teaching

Dr. Meg Bond

Director, WAVES: Women Academics Valued & Engaged in STEM

www.uml.edu/research/symposium

Artwork by Samantha Anthony



**2017 Faculty Symposium on
Teaching, Learning, Research, and Creative Works**
UMass Lowell Inn & Conference Center
Thursday, March 2, 2017, 3:00 p.m. - 6:30 p.m.

AGENDA

- 3:00 p.m. - 3:10 p.m. Welcome
- Julie Chen, Ph.D., Vice Chancellor for Research & Innovation
 - Julie Nash, Ph.D., Vice Provost for Student Success
- 3:10 p.m. - 3:20 p.m. Keynote: Reflections of a Reluctant Teacher
- Stephen Pennell, Ph.D., Professor of Mathematical Sciences
Recipient of the 2016 Manning Prize for Excellence in Teaching
- 3:20 p.m. - 3:30 p.m. Keynote: WAVES: Women Academics Valued & Engaged in STEM
- Meg A. Bond, Ph.D., Professor of Psychology
Director, Center for Women & Work
Director, NSF ADVANCE Institutional Transformation Project
- 3:40 p.m. - 4:25 p.m. Small Group Session I
- a) Teaching & Learning & Transformational Education Panel Discussion
 - Individualizing Feedback to Teacher Candidates Using the Teaching Channel & SWIVL Technology
Michelle Scribner-MacLean, Graduate School of Education
 - Implementing Competence Progress Modules in Organic Chemistry
Khalilah Reddie, Chemistry
 - Expanding Use of Reduced Cost Text Resources
Christopher Hansen, Mechanical Engineering
 - b) Research Lightning Talks
 - c) Research Lightning Talks
- 4:25 p.m. - 4:30 p.m. Break
- 4:30 p.m. - 5:20 p.m. Small Group Session 2
- a) Teaching Lightning Talks
 - b) Research Lightning Talks
 - c) Research Lightning Talks
- 5:30 p.m. - 5:40 p.m. Remarks by Chancellor Jacqueline Moloney
- 5:40 p.m. - 5:50 p.m. Remarks by Provost Michael Vayda
- 5:50 p.m. - 6:00 p.m. Remarks by Vice Chancellor Julie Chen
- 6:00 p.m. - 6:30 p.m. Networking Reception

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2016 Faculty Awards for Teaching Excellence

College of Fine Arts, Humanities and Social Sciences

Pouya Afshar, *Art & Design*
Rebecca Stone, *Criminology & Justice Studies*
David Kingsley, *Economics & Global Studies*
Matthew Hurwitz, *English*
Jenna Vinson, *English*
Elizabeth Herbin-Triant, *History*
Timothy Crain, *Music*
José Jorge Mendoza, *Philosophy*
Joshua Dyck, *Political Science*
Stephanie Block, *Psychology*
Mary Duell, *Psychology*
Cheryl Najarian-Souza, *Sociology*
Danielle Boutwell, *World Languages & Cultural Studies*

College of Health Sciences

Mahdi Garelnabi, *Biomedical & Nutritional Sciences (formerly Clinical Laboratory & Nutritional Sciences)*
Brenda Geiger, *Biomedical & Nutritional Sciences (formerly Clinical Laboratory & Nutritional Sciences)*
Erika Lewis, *Physical Therapy*
Laura Punnett, *Public Health (formerly Work Environment)*
Joel Tickner, *Public Health (formerly Community Health & Sustainability)*
Heidi Collins Fantasia, *School of Nursing*
Yuan Zhang, *School of Nursing*

Francis College of Engineering

John White, *Chemical Engineering*
Donald Leitch, *Civil & Environmental Engineering*
Michael Geiger, *Electrical & Computer Engineering*
Mufeed Mah'd, *Electrical & Computer Engineering*
Hunter Mack, *Mechanical Engineering*
Walter Thomas, *Mechanical Engineering*
Steven Grossman, *Plastics Engineering*

Graduate School of Education

Phitsamay Uy, *Curriculum & Instruction*

Kennedy College of Sciences

Rick Hochberg, *Biological Sciences*

Jeffrey R. Moore, *Biological Sciences*

Marina Ruths, *Chemistry*

Xinwen Fu, *Computer Science*

William Moloney, *Computer Science*

Mathew Barlow, *Environmental, Earth & Atmospheric Sciences*

John Lahoud, *Mathematical Sciences*

Marvin Stick, *Mathematical Sciences*

Timothy Cook, *Physics & Applied Physics*

Mark Tries, *Physics & Applied Physics*

Student Government Association's Teacher of the Year Award

Khalilah G. Reddie, *Chemistry*

Manning School of Business

Karen (Jingrong) Lin, *Accounting*

Hieu Phan, *Finance*

Beth Humberd, *Management*

Tao (Tony) Gao, *Marketing, Entrepreneurship and Innovation*

Juheng Zhang, *Operations and Information Systems*

University of Massachusetts Lowell

Promotion and Tenure, 2016

Promotion to Associate Professor with Tenure

Shelley Barish	English
Abigail Chandler	History
Yu Cao	Computer Science
Jessica Garb	Biological Sciences
Nancy Goodyear	Biomedical & Nutritional Sciences
Sandra Lim	English
Karen (Jingrong) Lin	Accounting
Annette McDonough	School of Nursing
Shakil Quayes	Economics
SangHyun Suh	Accounting
Stacy Szczesiul	Curriculum & Instruction
Todd Tietchen	English
Jenifer Whitten-Woodring	Political Science
Yuanchang Xie	Civil & Environmental Engineering
Seongkyu Yoon	Chemical Engineering

Approved for Tenure as Associate Professor

Hongwei (Harry) Zhu	Operations & Information Systems
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Promotion to Associate Librarian with Tenure

Sara Marks	Librarian
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Promotion to Full Professor

Diana Archibald	English
Oliver Ibe	Electrical & Computer Engineering
John Kaag	Philosophy
Benyuan Liu	Computer Science
Yan Luo	Electrical & Computer Engineering
Ramaswamy Nagarajan	Plastics Engineering
Vinod Vokkarane	Electrical & Computer Engineering
Xingwei Wang	Electrical & Computer Engineering
Alan Williams	Music

Promotion to Clinical Associate Professor

Laurie Soroken	School of Nursing
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Promotion to Senior Lecturer I

Dina Bozicas	English
George Chigas	World Languages & Cultural Studies
Zahra Fardmanesh-Karimy	Mathematical Sciences
Charles Ormsby	Mathematical Sciences
Rita Sullivan	English
Lori Weeden	Environmental, Earth & Atmospheric Sciences
Naomi Wernick	Biological Sciences

New Faculty Hires for Academic Year 2016

College of Fine Arts, Humanities and Social Sciences

Art

Timothy DeVoe	Visiting Instructor
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Criminal Justice

Kimberly Kras	Assistant Professor
Arie Perliger	Professor
Jill Portnoy	Assistant Professor

Philosophy

Nicholas Evans	Assistant Professor
Luis Oliveira	Visiting Lecturer

Political Science

Aaron Smith-Walter	Assistant Professor
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Psychology

Joseph Gonzales	Assistant Professor
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World Language & Cultures

Hope Anderson	Assistant Professor
Mamadou Samb	Assistant Professor

College of Health Sciences

Biomedical & Nutritional Sciences

Sabrina Noel	Assistant Professor
Boce Zhang	Assistant Professor

Physical Therapy

Edgar Torres	Clinical Associate Professor
Amanda Salacinski	Clinical Associate Professor

Public Health

Natalia (Natasha) Palacios	Assistant Professor
Angela Wangari Walter	Assistant Professor

Francis College of Engineering

Chemical Engineering

Gulden Camci-Unal

Assistant Professor

Dongming Xie

Associate Professor

Civil & Environmental Engineering

Danjue Chen

Assistant Professor

Raj Kumar Gondle

Lecturer

Electrical & Computer Engineering

Dodamege Thanuka Wickramaratne

Assistant Professor

Hualiang Zhang

Associate Professor

Mechanical Engineering

Arcan Dericioglu

Visiting Professor

Fuqiang Liu

Associate Professor

Marianna Maiaru

Assistant Professor

Plastics Engineering

Javier Vera Sorroche

Assistant Professor

Graduate School of Education

Curriculum & Instruction

A.J. Angulo

Professor

John McKenna

Assistant Professor

Honors College

Rachel Mansfield

Visiting Assistant Professor

Julian Zabalbeascoa

Visiting Assistant Professor

Kennedy College of Sciences

Biological Sciences

Nicolai Konow

Assistant Professor

Erin Smith

Lecturer

Chemistry

Dionysios Christodouleas	Assistant Professor
Manos Gkikas	Assistant Professor
Lawrence Wolf	Assistant Professor

Computer Science

Wenjin Zhou	Assistant Professor
Yelena Rykalova	Visiting Lecturer

Environmental, Earth & Atmospheric Sciences

Richard Gaschnig	Assistant Professor
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Physics

Nishant Agarwal	Assistant Professor
Ofer Cohen	Assistant Professor
Archana Kamal	Assistant Professor

Manning School of Business

Accounting

Heeick Choi	Assistant Professor
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Finance

Iskander Arifin	Visiting Assistant Professor
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Management

Karoline Evans	Assistant Professor
Elissa Magnant	Visiting Instructor
Jose-Mauricio Galli Geleilate	Assistant Professor
Erica Steckler	Assistant Professor
Peter Tashman	Assistant Professor

Marketing, Entrepreneurship & Innovation

Mark Yi-Cheon Yim	Assistant Professor
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Operations & Information Systems

Amit Deokar	Assistant Professor
Nichalin Summerfield	Assistant Professor

TRANSFORMATIONAL EDUCATION COMMITTEE

ACADEMIC YEAR 2015-2016 REPORT

FY 16 MEMBERSHIP OF THE TRANSFORMATIONAL EDUCATION COMMITTEE

Alkim Akyurtlu	Francis College of Engineering
Holly Butler	Entrepreneurship & Economic Development
James Canning	Honors College (Dean)
Nicole Champagne	College of Health Sciences
Laura Christianson	Manning School of Business
Ann Dean	College of FAHSS
Greg Denon	Career and Co-op Services
Kerry Donohoe	Registrar
Leslie Farris	Kennedy College of Sciences
Rebecca Foco	College of Health Sciences
Patricia Fontaine	Graduate School of Education (Dean)
Alice Frye	College of FAHSS
Peter Gaines	Kennedy College of Sciences
James Graham-Eagle	Kennedy College of Sciences
Michael Graves	Kennedy College of Sciences
Anita Greenwood	Graduate School of Education (Dean)
Paula Haines	Director of Assessment
Christopher Hansen	Francis College of Engineering
Andrew Harris	College of FAHSS
George Hart	Director of Libraries
Whit Kaufman	College of FAHSS
Ellen Keane	Library
Margaret Knight	College of Health Sciences
James Kohl	Student Affairs & Enrichment (Dean)
Scott Latham	Manning School of Business (Interim Dean)
Jason Lawrence	College of FAHSS
Silas Laycock	College of FAHSS
Kenneth Levasseur	Kennedy College of Sciences
Charlotte Mandell	Vice Provost of Undergraduate Education
Sanjeev Manohar	Francis College of Engineering
Bridget Marshall	College of FAHSS
Fred Martin	Kennedy College of Sciences
John McKelliget	Francis College of Engineering
Donna Mellen	Information Technology
Stephen Mishol	College of FAHSS
Arthur Mittler	Kennedy College of Sciences
Julie Nash	College of FAHSS
James Nehring	Graduate School of Education
Stephen Norton	Kennedy College of Sciences
Thomas Piñeros-Shields	College of FAHSS
Jialun Qin	Manning School of Business
Sheila Riley-Callahan	Centers for Learning
Michelle Scribner-MacLean	Graduate School of Education
James Sherwood	Francis College of Engineering
Richard Siegel	College of FAHSS
Christoph Strobel	College of FAHSS
Jenifer Whitten-Woodring	College of FAHSS

TRANSFORMATIONAL TALKS

The committee offered a second year of topics in this series of informal, practical, hour-long conversations on a variety of topics related to teaching, advising, and assessment. Designed for the sharing of ideas, the series draws on existing campus expertise to open up engaging exchanges among faculty and staff. Topics for 2015-16 included:

- Sept. 8. Universal Design and Access for All Students: Resources that support every student's learning and support students with disabilities. **Jody Goldstein**
- Sept. 29 Managing Behavior for Productive Learning: Tactics and techniques to help manage the classroom and keep students focused and on-task. **Anita Greenwood and Bohdan Zaryckyj**
- Oct. 27 GRIT: Getting Students Over the Mid-Semester Hump: Understand the impact of resilience and perseverance to help students stay motivated. **Kimberly Merriman**
- Nov. 17. Mentoring Undergraduate and Graduate Students to Complete Theses: Balance feedback and cultivate independence to challenge students in their long term projects. **James Sherwood and Todd Avery**
- Feb. 3 Tools to Transform Teaching – **Spencer Ross and Fred Martin**
- March 9 Understanding and Assisting ESL Users – **Jennifer Sia**
- April 5 Transformational Advising and the Core Curriculum – **Kristen Rhyner and Paula Haines**
- April 20 Your Best-Ever First Weeks of the Semester- **Natalie Houston**



PLEASE JOIN US FOR OUR FALL 2015 Transformational Tuesdays

September 8th @ 3:00
Universal Design and Full Access for All Students
University Crossing UCC-100
Jody Goldstein, Director of Disability Services

September 29th @ 3:00
Managing Behavior for Productive Learning
Thomas Room, Cumstock Hall
Charlotte Mandel, VP Undergraduate Education
Anita Greenwood, Dean of Education

October 27th @ 12:00
GRIT: Getting Students over the Mid-semester Hump
Southwick, SOC-200
Kimberly Merriman, Associate Professor
Manning School of Business

November 17th @ 12:00
Mentoring Undergraduate and Graduate Students as they Complete Theses
Thomas & Emma Sherman HSB-042
Todd Avery, Associate Professor, Faculty
James Sherwood, Associate Dean, Engineering

The Committee on Transformational Education invites you to our third series of informal, hour-long conversations with lunch or tea, depending on the hour. Designed to inform and transform your teaching. RSVP FOR ANY OF THESE TALKS to Jacqueline_Michales@uml.edu

Spencer Ross & Fred Martin: Tools to Transform Teaching
Wednesday, February 3 at 10:00 a.m., O'Leary 517
Add to your teaching toolkit with Slack, PollEv.com, Echo 360, and more.

Jennifer Sia: Understanding and Assisting English Second Language Users
Wednesday, March 9 at 12:00 p.m., Cumstock 201, Trustees' Room
Learn how you can assist non-native English speakers in your classroom.

Kristen Rhyner & Paula Haines: Transformational Advising & the Core Curriculum
Tuesday, April 5 at 3:00 p.m., McGowan 512 (room)
Get ready for advising week.

Natalie Houston: Your Best-Ever First Week of the Semester
Wednesday, April 20 at 12:00 p.m., UCC-490
Think ahead about getting Fall 2016 off to a great start.

Please join the Transformational Education Committee for Spring 2016 Transformational Talks
Enjoy hour-long conversations with lunch or snacks. RSVP to TransformEd@uml.edu.

NOVEMBER 10, 2015 THIRD ANNUAL SYMPOSIUM ON TEACHING AND LEARNING

A new format for this annual event put the spotlight on past and current recipients of Transformational Education teaching and learning grants.

Panel presenters: **John Brown – Education;**
Matt Hurwitz – English;
Marie Frank – World Languages and Cultures;
Jessica Garcia – Chemistry

Open mic session: Faculty from across campus stepped up to the microphone with impromptu comments about successful innovations in teaching they had enacted.

FEBRUARY 16, 2016 CONVERSATION DINNER

Educational Advisory Board consultant Jeff Martin spoke to a gathering of campus academic leaders on the topic of “Scaling Teaching Innovations.” The talk was followed by dinner and a provocative conversation about and broad consideration of campus priorities for improving teaching, learning, advisement, and assessment.

MINI-GRANT PROGRAM: EXPANDING USAGE OF OPEN-TEXT MATERIALS

The Committee solicited proposals and issued mini-grants that encouraged faculty to help reduce student costs by taking advantage of or creating original open source course materials.

Funded projects were completed by the following faculty:

Milena Gueorguieva	-	English
Xiaoxia Newton	-	Education
Ramon Castillo, Alan Williams, Garrett Michaelson		Music
Fang Lai	-	Plastics Engineering
Wego Wang	-	Engineering Technology
Kenneth Levasseur	-	Mathematics
John Brown	-	Education
Hongwei Zhu	-	Operations and Information Systems
Michael Pierson	-	History
Adrian Cruz, Cheryl Llewellyn, Richard Hudak		Sociology

PEDAGOGY SUBCOMMITTEE

Anita Greenwood; Donna Mellen, Fred Martin, Art Mittler, Steve Mishol, Chris Strobel, Silas Laycock, Patricia Fontaine, Ken Levasseur, Julie Nash, George Hart.

Awarded three 2015-16 Innovations in Teaching Mini-Grants:

John Brown: Fieldwork Experience: Literacy Teachers and High School Students at the MFA

Matthew Hurwitz: Scaling up Service Learning in First Year Writing

Thomas Sloan: “ForClass” application in Global Supply Chain course (ForClass is a web-based application that allows students to read case studies and input responses to Questions.)

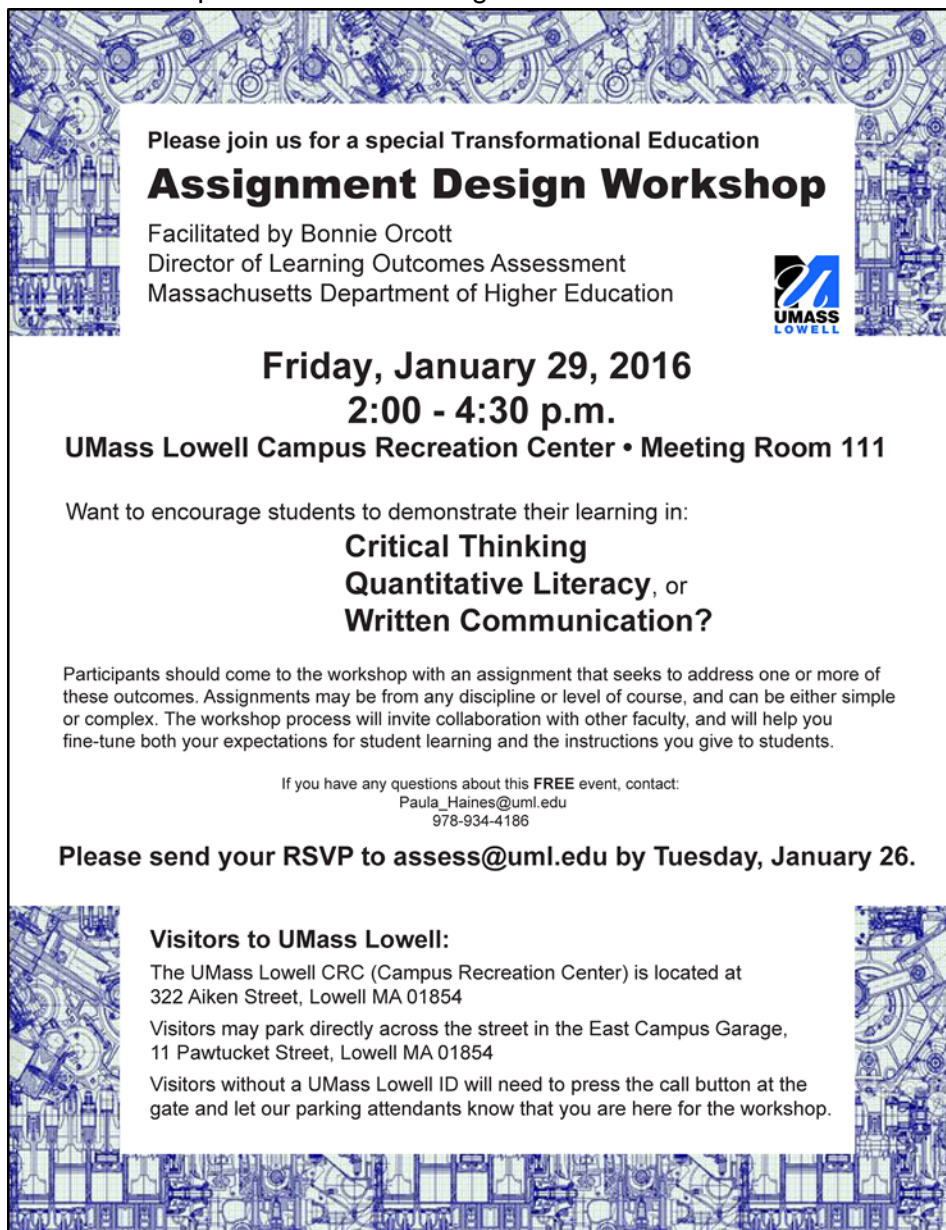
Streamlined process was developed for 2016-17 Innovations in Teaching Mini-Grants

ADVISING SUBCOMMITTEE

Continued expansion of Advising Affinity Group Listserv. This platform encourages cross-campus discussion of key policies for effective transactional advisement and the sharing of strategies for transformational advising.

ASSESSMENT SUBCOMMITTEE


Hosted workshop led by Massachusetts Department of Higher Education Director for Learning Outcomes Assessment. Paired 10 faculty—from UMass Lowell and three partner community colleges—in hands-on work using assignment design to increase attention on learning outcomes and improve student learning.



Please join us for a special Transformational Education

Assignment Design Workshop

Facilitated by Bonnie Orcott
Director of Learning Outcomes Assessment
Massachusetts Department of Higher Education



Friday, January 29, 2016
2:00 - 4:30 p.m.
UMass Lowell Campus Recreation Center • Meeting Room 111

Want to encourage students to demonstrate their learning in:

Critical Thinking
Quantitative Literacy, or
Written Communication?

Participants should come to the workshop with an assignment that seeks to address one or more of these outcomes. Assignments may be from any discipline or level of course, and can be either simple or complex. The workshop process will invite collaboration with other faculty, and will help you fine-tune both your expectations for student learning and the instructions you give to students.

If you have any questions about this **FREE** event, contact:
Paula_Haines@uml.edu
978-934-4186

Please send your RSVP to assess@uml.edu by Tuesday, January 26.

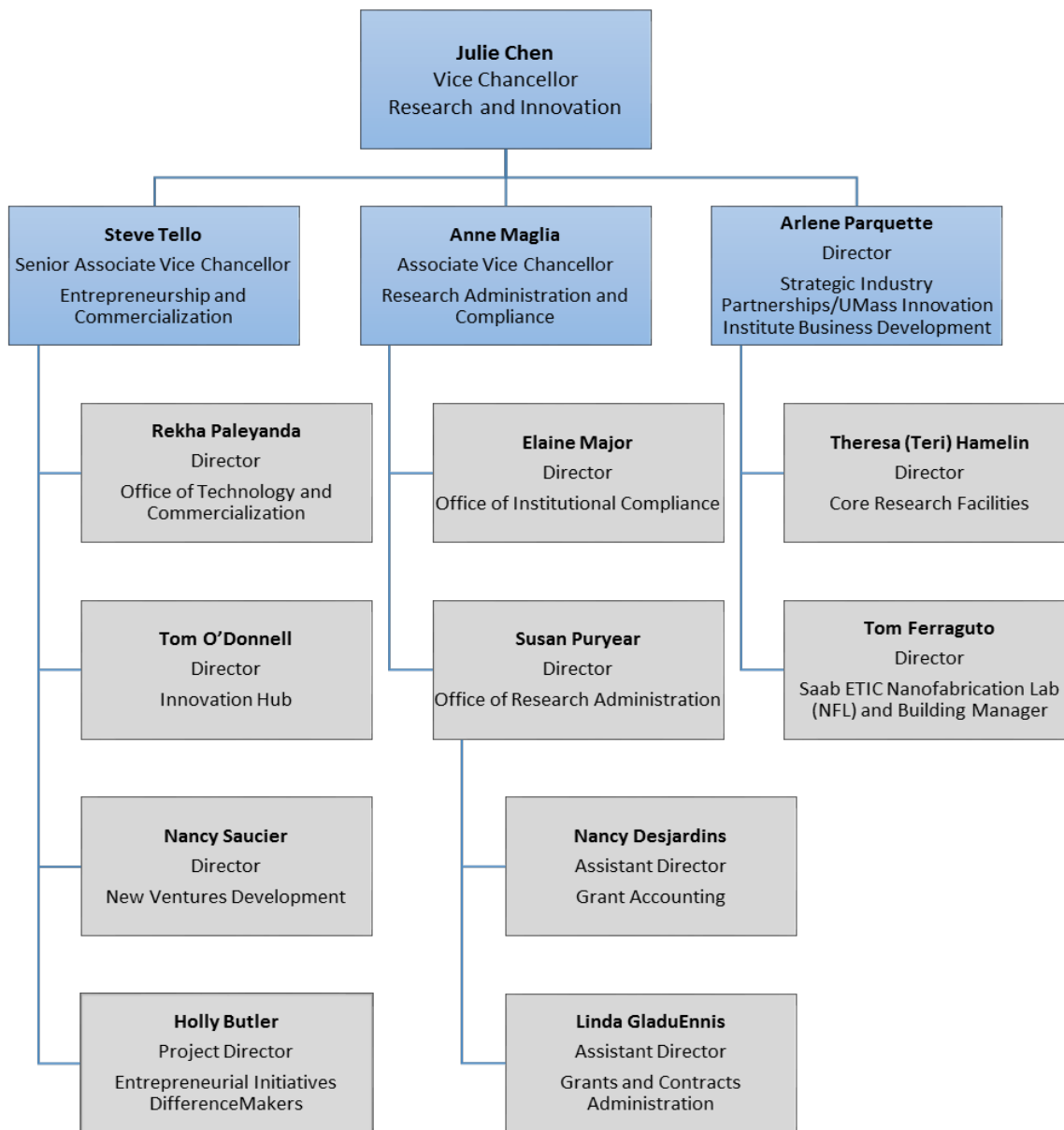
Visitors to UMass Lowell:

The UMass Lowell CRC (Campus Recreation Center) is located at
322 Aiken Street, Lowell MA 01854

Visitors may park directly across the street in the East Campus Garage,
11 Pawtucket Street, Lowell MA 01854

Visitors without a UMass Lowell ID will need to press the call button at the
gate and let our parking attendants know that you are here for the workshop.

Research and Innovation



University of Massachusetts Lowell Seed Funding

2016 Creative Economy Awards

Pouya Afshar (Assistant Professor, Art) - *“Community Animation Partnership: Creating a Platform for Dialogue through Animation”*

MinJeong Kim (Associate Professor, Graduate School of Education,), **Phitsamay Uy** (Assistant Professor, Graduate School of Education) and **Allyssa McCabe** (Professor, Psychology) - *“Reviving the Forgotten Tales of Childhood: Turning Narratives of Southeast Asian Families into Children’s Multicultural Literature”*

Chad Montrie (Professor, History) - *“Urban Waters Revolution”*

2016 Science and Technology Awards

Yu Cao (Assistant Professor, Computer Science), **Katherine Tucker** (Professor, Biomedical and Nutritional Sciences), **Yunsheng Ma** (Associate Professor, Medicine UMass Medical), **Wei Ding** (Associate Professor, Computer Science UMass Boston), **Benyuan Liu** (Associate Professor, Computer Science), **Yan Luo** (Associate Professor, Electrical and Computer Engineering), **Jongsoo Lee** (Assistant Professor, Mathematics and Biostatistics), **Suzanne Leveille** (Professor, Nursing UMass Boston), **Jill Macoska** (Professor, Biological Sciences UMass Boston), **J. Herbert Stevenson** (Associate Professor, Family Medicine/Sports Medicine UMass Medical) and **Hong Yu** (Professor, Quantitative Health Sciences, UMass Medical) - *“Center for Digital Healthcare”*

Holly Yanco (Professor, Computer Science), **Bryan Buchholz** (Professor, Work Environment), **Pei-chun Kao** (Assistant Professor, Physical Therapy), **Haim Levkowitz** (Associate Professor, Computer Science), **Kate Saenko** (Assistant Professor, Computer Science), **Herb Stevenson** (Associate Professor, Sports Medicine UMass Medical), **Winnie Wu** (Assistant Professor, Physical Therapy) and **Adam Norton** (NERVE Center Manager, UMass Lowell) - *“NERVE Center: Designing Better Robot Systems for People”*

Seongkyu Yoon (Assistant Professor, Chemical Engineering), **Mark Klempner** (Exec. Vice Chancellor, UMass Medical) and **Carl Lawton** (Associate Professor, Chemical Engineering) – *“BioManufacturing Innovation Institute (BMII)”*

2016 Internal Seed Awards

Chris Allen (Assistant Professor, Criminal Justice) and **Rebecca Stone** (Lecturer, Criminal Justice) – *“Examining University Allegations of Alleged Sexual Misconduct”*

Doreen Arcus (Associate Professor, Psychology) – *“School Discipline Decisions among Educators, Administrators, and School Resource Officers by Region: Students with Disabilities and the School-to-Prison Pipeline”*

Kacey Beddoes (Assistant Professor, Sociology) and **Joseph Hartman** (Dean, College of Engineering) – *“Characterizing the Epistemological Foundations of Global Engineering Competency”*

Michael Ciuchta (Assistant Professor, Marketing) and **David Kingsley** (Professor, Economics) – *“Experimental Games in Entrepreneurial Finance”*

Jennifer Fish (Assistant Professor, Biological Sciences) and **Sarah McMenamin** (Assistant Professor, Biology, Boston College) – *“Defective BMP Signaling as the Cause of Nager Syndrome”*

James Forest (Professor, Criminal Justice), **Allyssa McCabe** (Professor, Psychology) and **Neil Shortland** (Research Associate, Criminal Justice) – *“Using Narrative Analysis to Detect Level of Threat in Online Expressions of Malicious Intent”*

Ingrid Hess (Assistant Professor, Art) – *“We All Need Peace”*

Elissa Johnson-Green (Assistant Professor, Music), **John-Morgan Bush** (Lecturer, Music) and **Wael Kamal** (Lecturer, Art) – *“We’ve Got the World on a String: A Documentary Project”*

Pei-Chun Kao (Assistant Professor, Physical Therapy) and **Mahdi Garelnabi** (Associate Professor, Biomedical and Nutritional Sciences) – *“Neurophysiological Effects of Exercise on Gait Rehabilitation following Stroke”*

Jayant Kumar (Professor, Physics) and **Ramaswamy Nagarajan** (Associate Professor, Plastics Engineering) – *“Non-Invasive Sending of Blood Metabolites using Raman Spectroscopy”*

Taras Lyubchenko (Associate Professor, Biomedical and Nutritional Sciences) and **Anna Rumshisky** (Assistant Professor, Computer Science) – *“Computational Model for the Discovery of New Treatment Targets in the Autoimmune Diseases”*

Jill Lohmeier (Associate Professor, Curriculum and Instruction) and **Stephen Mishol** (Associate Professor, Art) – *“Getting Our Heads Out of the Sand: A Sustainability and Climate Change Awareness Campaign”*

Kelsey Mangano (Assistant Professor, Biomedical and Nutritional Sciences) and **Sabrina Noel** (Research Associate Professor, Biomedical and Nutritional Sciences) – *“Diet, Inflammation and the Gut Microbiota”*

Nese Orbey (Associate Professor, Chemical Engineering) and **Nancy Goodyear** (Assistant Professor, Biomedical and Nutritional Sciences) – *“Stability and Controlled Release of Hydrogen Peroxide from Silica Based Hydrogels for Treatment of Wound Infections”*

Sheree Pagsuyoin (Assistant Professor, Civil Engineering) and **Hongwei Sun** (Associate Professor, Mechanical Engineering) – *“Development of Functionalized Filter Media for Water Treatment Applications”*

Kate Swanger (Assistant Professor, Environmental, Earth and Atmospheric Sciences) and **Kelsey Winsor** (Post Doctoral Associate, Environmental, Earth and Atmospheric Sciences) – *“A New History of Ice Sheet Retreat in Rhode Island and It’s Climate Change Context”*

Herpreet Kaur Thind (Assistant Professor, Public Health) – *“Total Student Health at UML”*

Miko Wilford (Assistant Professor, Psychology) and **Misha Rabinovich** (Assistant Professor, Art) – *“To Plea or Not to Plea: A Virtual Simulation of Plea-Bargain Scenarios”*

Yi-Ning Wu (Assistant Professor, Physical Therapy) and **Momotaz Begum** (Assistant Professor, Computer Science) – *“Feasibility of an Artificially Intelligent Home-Based Rehabilitation System for Children with Cerebral Palsy using Wearable Technologies”*

Enlightened Bites (EBites) Workshops (Spring/Fall 2016)

Adrianna (Andy) Morris Director

Tel. 978.934.2898

EBites is a lunch-time workshop presented (during Fall and Spring Semesters) that covers a wide range of topics for faculty, and staff to support the research community.

- **Introductory Series of Presentations (Fall 2016)** by the research and innovation team reporting to Julie Chen, Vice Chancellor for Research and Innovation was offered for new and existing faculty.
 - These workshops included overviews of Research Administration, Core Research Facility, Institutional Compliance, Procard, UMass Innovation Institute, Technology and Commercialization; Innovation Hub, M2D2, and DifferenceMakers.

New Interdisciplinary Initiatives (2016)

- **Seed Grant success stories** (Fine Arts): Sue Kim, English
- **Creative Economy Grant success stories** (Fine Arts): Phitsamay Uy, Chad Montrie, Pouya Afshar, Tommaso Tempesti
- **Seed Grant success stories** (Science and Engineering): KwokFan Chow, Murat Inalpolat, Marina Ruths, HsiWu Wong
- **S & T Grant success story:** (Science & Engineering) Yu Cao
- **Centers and Institutes:** (Julie Chen, Andrew Harris)

Proposal Development

- NextFlex, the Flexible Hybrid Electronics Manufacturing Innovation Institute and their Project submission Process (Joey Mead, Julie Chen)
- Advanced Functional Fabrics of America (AFFOA), Cheryl Gomes, Technical Program Manager

Resources

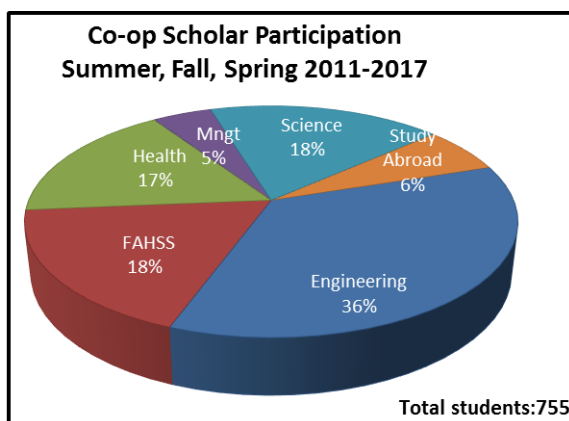
- Software applications available for faculty, staff and students (Nancy Fowler)
- International Service Learning Opportunities for Faculty (Fern MacKinnon)
- International Student & Scholar Process at UMass Lowell (Maria Conley)
- How to turn a 30-second sound bite on NPR into funding for your research (John Feudo, University Advancement)
- Enlightened Bites 3-Part Series: Tools to Drive to Innovation & Commercialization Success - Primer for Start-up Companies/Internal Innovation Efforts (sponsored by Nancy Saucier and Tom Ferraguto, and presented by Gary J. Ainsworth, Consultant/Senior Executive/Vice President of Operations – Product Design and Commercialization
 - The Three List Management System
 - Problems: Corner Them and Measure Them
 - Moving from Tactical to Strategic Planning

Undergraduate Research Program (Co-op Scholars)

Program Director: Adrianna (Andy) Morris; Program Coordinators: Vanessa Farzner, Jennifer Keene-Crouse, Fern MacKinnon

- The co-op scholar program provides a \$4,000 co-op opportunity to high achieving, incoming early-action freshmen who maintain a required GPA during their freshmen year.
- The program continues to attract top students to the University.
- Highlights from 2016 for:
 - **Research** included new partnerships with Hanscom Air Force Base, the SPACE HAUC program, Athletics Department, and continued work with the Natick Soldier Center.
 - **Community** opportunities provided opportunities at the Methuen Police Department, the Mass Watershed, the Discovery Museum, Eforall and Thrive Together.
 - **Health** students, in addition to working on campus, participated at Circle Home (Nursing), WIC, and were Camp Assistants for the Roudenbush Community Center.
 - Study abroad selections included travel to Dublin, San Sebastian, Prague & Rome

	Academic Year			Total
	Summer 2016	2016-2017	Study Abroad	
Francis College of Engineering	43	7	9	59
Fine Arts Humanities & Social Sciences	12	21	5	38
Health Sciences	21	13	5	39
Manning School of Business	1	0	2	3
Kennedy College of Sciences	25	7	3	35
Totals	102	48	24	174



Emerging Scholars Program

The Emerging Scholars Program, presented by the Center for Women and Work matches qualified rising Juniors and Seniors in the College of Fine Arts, Humanities and Social Sciences with an experienced faculty partner to participate in cutting edge research. The program, which is year-long, awards students with a GPA of 3.25 or greater. Students work for 125 hours per semester and they receive \$2,500 for the year.

Thank you Co-op and Emerging Scholars' Mentors for your Dedication

Kennedy College of Sciences

Biological Science

Jennifer Fish
Peter Gaines
Jessica Garb
Hwai Chen Guo
Nicolai Konow
Matthew Nugent

Chemistry

Kwok Fan Chow
Dionysios Christodouleas
Matthew Gage

Computer Science

Fred Martin
Holly Yanco

Physics

Partha Chowdhury
Supriya Chakrabarti
Cecil Joseph

College of Health Sciences

Exercise Physiology

Eric James
PeiChun Kao
Connie Seymour
Yi-Ning Wu

Nursing

Brenna Quinn
Yuan Zhang

Public Health

Laura Punnett
Herpet Thind

Biomedical and Nutritional

Thomas Wilson

Athletics

Michael Letzeisen
Christine Smith

Difference Maker

Holly Butler

Francis College of Engineering

Chemical Engineering

Zhiyong Gu
Carl Lawton
Nese Orbey
Justin Pounders

Prakash Rai

HSIWu Wong

Seongyu Yoon

Sean Galbraith

Civil & Environmental Eng.

Xiaoqi Zhang

Electrical & Computer Engineering

Tngshu Hu

Mechanical Engineering

Ertan Agar
Ali Amirkhizi
Linda Barrington
Patrick Drane
Christopher Hansen
Murat Inalpolat
James Sherwood

Plastics Engineering

Carol Barry
Stephen Johnston
Steve Driscoll

College: Fine Arts, Humanities & Social Sciences

Economics

David Turcotte

Music

Elissa Johnson Green

Political Science

John Cluverius

Psychology

Doreen Arcus
Stephanie Block

Manning School

Hongwei Zhu

Education

Anita Greenwood
Jill Lohmeir

Emerging Scholars' Mentors

Education

Judith Davidson

History

Robert Forrant

Music

Elissa Johnson-Green

Political Science

John Cluverius

Psychology

Doreen Arcus
Patrice Faith Olivar
Richard Serna
Jana Sladkova
Yana Weinstein

Sociology

Cheryl Llewelyn

Emerging Scholars' Mentors 2015-2016

English

Marlowe Miller
Jonathan Silverman

Criminal Justice

Kelly Socia
Melissa Morabito

Political Science

Jenifer Whitten Woodring

Psychology

Christopher Allen
Doreen Arcus
Michelle Haynes
Richard Serna

Graduate Research Assistants

Sharon Freeman, Program Coordinator

Faculty funded 375 Graduate Research Assistant contracts for FY16
(half/full, semester/academic year)

College of Engineering

Department	Fall 2015	Spring 2016	Academic Year
Chemical Engineering	9	10	13
Civil Engineering	8	6	
Electrical & Computer Engineering	34	30	17
Mechanical Engineering	20	21	17
Plastics Engineering	19	18	13
Total	90	85	60

College of Fine Arts, Humanities & Social Sciences, Graduate School of Education and Manning School of Business

Department	Fall 2015	Spring 2016	Academic Year
Center for Community Research & Engagement	2	2	2
Criminal Justice	2	1	
Economics	2	3	
Sociology		1	
Graduate School of Education	1	1	
Total	7	8	2

College of Health Sciences

Department	Fall 2015	Spring 2016	Academic Year
Clinical Laboratory & Nutritional Sciences	2	1	
Community Health			1
Toxics Use Reduction Institute			5
Work Environment	4	6	8
Total	6	7	14

College of Sciences

Department	Fall 2015	Spring 2016	Academic Year
Biology	2	5	1
Chemistry	14	10	1
Computer Science	15	12	6
Environmental, Earth & Atmospheric Sciences			1
Physics	12	11	6
Total	43	38	15

2016 Centers and Institutes

University Research Institutes & Centers

- Raytheon-UMass Lowell Research Institute (RURI) – Craig Armiento, Alkim Akyurtlu
- Nanomanufacturing Center – Joey Mead, Carol Barry
- Center for Promotion of Health in the New England Workplace – Laura Punnett
- Center for Women and Work – Meg Bond
- Center for Wind Energy – Chris Niezrecki
- New England Robotics Validation & Experimentation Center (NERVE) – Holly Yanco
- Center for Advanced Materials including HEROES – Jayant Kumar, Ramaswamy Nagarajan
- The UMass Lowell Center for Population Health and Health Disparities – Katy Tucker, Luis Falcon

University Engagement Centers

- Tsongas Industrial History Center – Sheila Kirschbaum, Anita Greenwood
- Center for Community Research & Engagement - Robin Toof, Andrew Hostetler
- Jack & Stella Kerouac Center for Public Humanities – Michael Millner

Seed Research & Engagement Centers

- Biomedical Terahertz Technology Center (BTTC) – Bob Giles
- Center for Asian American Studies – Ivy Ho, Sue Kim
- Center for Autism Research and Education (CARE) – Ashleigh Hillier
- Center for Digital Health – Yu Cao
- Center for Gerontology and Partnerships – Karen Melillo
- Center for Internet Security and Forensics Education and Research (iSAFER) –Xinwen Fu, Jie Wang
- Center for Program Evaluation – Jill Lohmeier
- Center for Public Opinion Research – Francis Talty, Joshua Dyck
- Climate Change Initiative – Juliette Rooney Varga, John Wooding
- Lowell Center for Space Science and Technology (LoCSST) – Supriya Chakrabarti
- Massachusetts Biomanufacturing Center – Carl Lawton, Seongkyu Yoon
- Radiation Laboratory – Partha Chowdhury, C. J. (Kim) Lister

Entrepreneurship & Economic Development

DifferenceMaker

www.uml.edu/differencemaker

Staff first name last name	Staff Title	Staff Email
Holly Butler	Program Director	Holly_Butler@uml.edu
Ha Pho	Program Manager	Ha_Pho@uml.edu
3 to 4 Student Co-Ops – rotates per semester		

Mission

DifferenceMaker is a campus-wide program that engages students of all majors and disciplines in creative problem solving, innovation and entrepreneurship. If a student has an idea or sees a problem they want to solve, they come to DifferenceMaker to receive various resources to help them pursue that idea or solve that problem.

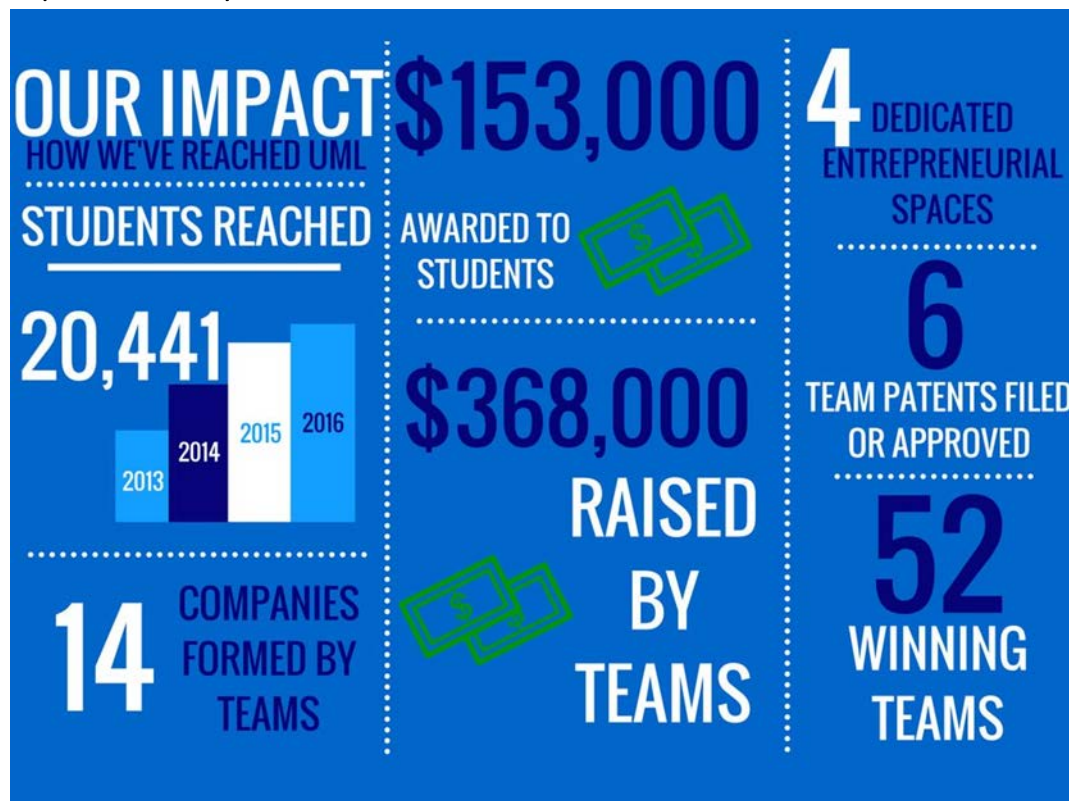
Services & Programs



Milestone Accomplishments FY2016 (July 2015 – June 2016)

- Coordinated the Student and Alumni Celebration with 120 attendees including students, alumni, faculty and staff (October 2015)
- Worked with Prof. Deb Finch to launch the MSB Freshman DM Seminar (Spring 2015)
- Managed first Hawkathon event with student team and engaged 78 student participants from 17 colleges (March 2016)
- Piloted multiple mentor matching and matched 11 teams to 24 mentors (June 2016)
- Presented DM at Deshpande and received various interest from other universities wanting to adopt DM materials and processes (June 2016)
- Revamped the DM summer Boot Camp and received good feedback from the student teams (June 2016)
- Advised 4 DM teams on travelling: Nonspec – India, Fresh Beets – Texas, HIVE – California, eNABLE – Ireland (2015---2016)

Impact Summary:



Goals/Initiatives for FY 2017

- Engage 5 new alumni in the Mentor Program
- Facilitate a DM workshop at the Deshpande Symposium in June 2017 to expand publicity and grow the program to other universities
- Engage 3 DM student teams in outside competitions and entrepreneurial programs

OFFICE OF TECHNOLOGY COMMERCIALIZATION (OTC)

<https://www.uml.edu/Research/OTC/>

Staff Name	Staff Title	Staff Email
Rekha Paleyanda, Ph.D.	Director	Rekha_paleyanda@uml.edu
Rajnish Kaushik, Ph.D.	Assistant Director	Rajnish_kaushik@uml.edu
Vijayendra Kumar, Ph.D.	Technology Analyst	Vijayendra_kumar@uml.edu
Jenna Petrillo	Operations Coordinator	Jenna_petrillo@uml.edu

Mission

The Office of Technology Commercialization's (OTC) mission is to facilitate the commercialization of innovative UML technology arising from government, foundation and industry sponsored research from the laboratory to the marketplace. We assist faculty in the developing their ideas into commercially viable products, nurture mutually beneficial relationships between the University and industry, promote innovative and entrepreneurial culture at the University, and contribute to the economic vibrancy and well-being of the Commonwealth. Via the development and launch of new products and services that benefit the public good, OTC activities help generate revenue to support the University's research and education goals, as well as foster economic growth.

Services & Programs

- Identify, review and protect UML intellectual property (IP) generated by faculty
- Actively market IP to commercial entities to partner with and license UML technologies
- Negotiate Confidentiality, material transfer and license agreements
- Generate financial returns for UML from licensing fees, equity, royalties etc.

Milestone Accomplishments FY2016 (July 2015 – June 2016)

- UMass received a total of \$3.8 million in revenue from the sale of Anterios, a start-up company spun out in 2006 to Allergan, a global pharmaceutical company, for \$90 million upfront with a potential for additional milestone payments. Based on IP from Drs. Steve McCarthy and Bob Nicolosi, Anterios is developing a platform for injection-less delivery through the skin and botulinum toxin-based treatment of conditions like excessive sweating, acne, and crow's feet. Collaborating in developing the technology were Profs. Tom Shea, Tom Wilson and Carl Lawton.
- OTC actively supported and promoted faculty pitches to the Mass Clean Energy, UMass President's Office Technology Funds and MTTC Commercialization Seed Fund, leading to UML receiving 2 out of 8 (25%) awards of \$25,000 and 4 out of 8 (50%) Phase 2 awards of \$40,000, winning a total of \$210,000 in commercialization funds. (Drs. Mead and Kokil; Drs. Schmidt, Sajo, Kurup and Wang for the two Funds resp.) The TD Fund was established in 2004 to close the gap between basic research and product development, making UM technologies attractive for licensing by a commercial partner.

- OTC raised the profile of UML by encouraging grant submission by faculty, public presentations and entry into competitions to raise awareness of the quality of UML IP. This has translated into increased recognition and follow-on funding:
- Jayant Kumar was selected from several applicants as a semi-finalist at the Mass Clean Energy Center in June
- Dan Schmidt and Pradeep Kurup were invited to present at the MATTO Food Forum in May and generated much interest among the audience.
- Dr. Kurup received a 'National Innovation Award' at Tech Connect 2016; [as well as an NSF PFI:AIR-TT Award for \$222,000 in follow-up of the team's FY15 NSF-iCorps award.]
- To define the commercial pathway for a software invention, OTC connected a faculty-student team led by Viktor Podolisky to a mentor, to successfully obtain a \$50,000 NSF I-Corps Awards. OTC works closely with the new venture initiative, in identifying potential startup technologies for NVI pipeline.
- OTC successfully licensed UML IP to and facilitated the spin-out of startup companies such as Immunotrex Educational, Immunotrex Biologics, OrthoClose, Weave Visual Analytics, Solargasoline, Radect and Eirion.
- OTC supported Spinout companies, Solargasoline in their successful attempts to obtain an SBIR Phase I award from the NSF, and Radect in their application for an SBIR Phase I award from the Air Force Research Laboratory.
- OTC continued to collect and distribute licensing revenues from companies like, Sevo Nutraceuticals, Metabolix, Boston Scientific, and Anterios.

OTC Activity Snapshot, by the numbers:

Technology Licensing Revenues	\$2,976,000
Innovation Commercialization Funding	\$482,000
Inventive Activity	33 Invention Disclosures received
Patent applications filed in FY16	33
Patents issued to UML	13
Outside/Corporate Engagement Activity	161 IP-related Agreements
Entrepreneurial Activity	5 Startups Formed

Unit Goals/Initiatives for FY 2017

- Increased outreach to faculty and leadership of all schools at UML to understand their needs, identify potential for various kinds of IP, encourage a culture of innovation and increase the number and quality of disclosures to OTC. Expand portfolio of educational programs offered to faculty (and students).
- Grow collaborations with government and industry partners, leverage network for research funding to bring the technology to the license-ready stage. Represent UML at industry conferences in focus areas to increase contact with potential partners.
- Assist licensees to succeed by introduction to additional funding sources, ensuring the growth and viability of a startup beyond the "seed" stage.

Faculty Invention Disclosures FY16

In FY16, 27 individual faculty members contributed to one or more invention disclosure.

In FY16, there were 34 inventive contributions made by faculty.

Faculty Member	College	Department	No. of CIDs
Akyurtlu, Alkim	Engineering	Electrical & Computer Engineering	5
Hansen, Christopher	Engineering	Mechanical Engineering	3
Therrien, Joel	Engineering	Electrical & Computer Engineering	2
Orbey, Nese	Engineering	Chemical Engineering	2
Lee, Yongwoo	Sciences	Chemistry	2
Ngwa, Wilfred	Sciences	Physics	2
Shen, Mengyan	Sciences	Physics	2
Nagarajan, Ramaswamy	Engineering	Plastics Engineering	2
Podolskiy, Viktor	Sciences	Physics	2
Morose, Gregory	Sciences	TURI	2
Amirkhizi, Alireza	Engineering	electrical & Computer Engineering	1
Mil'shtein, Samson	Engineering	Electrical & Computer Engineering	2
Armiento, Craig	Engineering	Electrical & Computer Engineering	1
Braunhut, Susan	Sciences	Biological Sciences	1
Marx, Kenneth	Sciences	Chemistry	1
Lawton, Carl	Engineering	Chemical Engineering	1
Chen, Guanling	Sciences	Computer Sciences	1
Chow, Kwok-Fan	Sciences	Chemistry	1
Kazmer, David	Engineering	Plastics Engineering	1
Ibe, Oliver	Engineering	Electrical & Computer Engineering	1
Handelman, Gary	Health & Environment	Biomedical & Nutritional Sciences	1
Marshall, Jason	Sciences	TURI	1
Guo, Wei	Sciences	Physics	1
Mead, Joey	Engineering	Plastics Engineering	1
Barry, Carol	Engineering	Plastics Engineering	1
Kumar, Jayant	Sciences	Physics	1
Manohar, Sanjeev	Engineering	Chemical Engineering	1

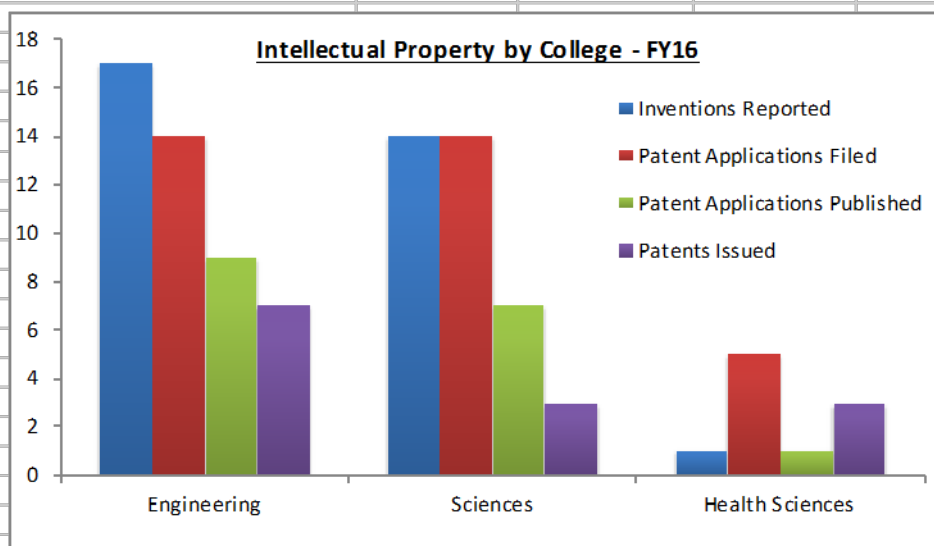
***Note:** Faculty members are acknowledged for each disclosure in which they are a named coinventor.

Faculty Whose Inventions Were Issued or Granted Patents in FY16

Patents Issued in FY16					
Invention	Issued Patent No.	Country of Filing	Intellectual Property Title	Inventors	Issue Date
2006-017	US 9,078,294	United States	Nanoheater Elements, Systems and Methods of Use Thereof	Julie Chen *;Charalabos Domanidis;Claus Rebholz;Teichi Ando	07/07/15
2010-011	US 9,080,001	United States	Flame-Retardant Derivatives	Jayant Kumar;Ramaswamy Nagarajan *;Bon-Cheol Ku;E. Bryan Coughlin;Sethumadhavan Ravichandran;Subhalakshmi Nagarajan	07/14/15
2006-003	2631927	Canada	Botulinum Nanoemulsions	Robert J Nicolosi *;Jon Edelson	08/18/15
2011-003	US 9,163,114	United States	Biodegradable Shape Memory Polymer	Bridgette Budhlall *;Amit Laxman Garle	09/10/15
2010-003	US 9,139,690	United States	BISPHENOL A (BPA) FREE EPOXY RESINS	Daniel Schmidt *	09/22/15
2008-002	US 9,156,945	United States	Mixed Organic and Inorganic Polymers	Vincent Tucci;Ravi Mosurkal;Rajesh Kumar;Arthur C. Watterson *;Lynne A. Samuelson;Virinder Singh Parmar;Jayant Kumar	10/13/15
2013-017	US 9,156,924	United States	Novel Polymerization Initiating System and Improved Method to Produce Highly Reactive Olefin Functional Polymers	Rudolf Faust *;Jack Emert	10/13/15
2005-006	269578	India	Compositions and methods for making and using nanoemulsions	Robert J Nicolosi *;Thomas Wilson;Robert Fisher	10/28/15
2007-010	US 9,173,970	United States	NOVEL BIODEGRADABLE BONE PLATES AND BONDING SYSTEMS	Jeffrey Weinzeig;Anshuman Shrivastava;Stephen P McCarthy *	11/03/15
2005-006	2,618,655	Canada	Compositions and Methods for Making and Using Nanoemulsions	Robert J Nicolosi *;Thomas Wilson;Robert Fisher	22-Dec-15
2011-044	US 9,321,206	United States	Injection molding machines and methods for accounting for changes in material properties during injection molding runs	Robert X Gao *;David O Kazmer;Zhaoyan Fan	04/26/16
2014-018	US 9,333,096	United States	Prosthetic Limb	Jonathan de Alderete *;Erin Keaney;Brian Donoghue	05/10/16
2012-003	5945605	Japan	Polymerization Initiating System and Method to Produce Highly Reactive Olefin Functional Polymers	Rudolf Faust *;Philip Dimitrov;Rajeev Kumar;Jack	06/03/16

INTELLECTUAL PROPERTY BY COLLEGE - FY16

Metric	College / School of Lead PI			Total
	Engineering	Sciences	Health Sciences	
Inventions Reported	17	14	1	33
Patent Applications Filed	14	14	5	33
Patent Applications Published	9	7	1	17
Patents Issued	7	3	3	13



* Graduate School of Education, The Manning School and The College of Fine Arts, Humanities & Social Science did not have IP recorded in FY16

UMPO Technology Development Fund Awardees 2016

PI(s)	Department	Award Amt	Technology	Docket No(s)
Carol Barry, Joey Mead	Plastics Engineering	\$25,000	Commercialization of Corrosion Resistance Coating with improved durability	UML 2014-010, UML 2014-022
Daniel Schmidt,	Plastics Engineering	\$25,000	Vinyl hydroxyl ether resins (VHER) : A new family of resins	UML 2015-041

MTTC Innovation Commercialization Seed Fund Phase 2

PI(s)	Department	Award Amt	Technology	Docket
Daniel Schmidt	Plastics Engineering	\$40,000	Bisphenol A (BPA) Free Epoxy Resins for Food Can Liners	UML 2010-003
Pradeep U. Kurup	Civil Engineering	\$40,000	Versatile Electronic Tongue for Environmental Monitoring and	UML 2013-007
Erno Sajo	Physics	\$40,000	Radiation detection and monitoring for radiation safety and medical applications employing self-powered High	UML 2013-013; UML 2013-024
Xingwei Wang	Electrical & Computer Engineering	\$40,000	CBU (Catheter Based Ultrasound) fiber optic temperature distribution	UML 2015-032

OTC Faculty Awards

Successful Exit for UML Technology, via sale of UML Start-up Company

Drug-delivery start-up "Anterios" acquired by Allergan plc in January 2016

- Robert Nicolosi, Clinical Laboratory & Nutrition Studies
- Stephen McCarthy, Plastic Engineering
- Thomas Shea, Biological Sciences
- Thomas Wilson, Clinical Laboratory & Nutrition Studies
- Carl Lawton, Chemical Engineering

Faculty Recipients of the UMPO Technology Development Fund Awards in FY16 *

- Carol Barry, Joey Mead; Plastics Engineering, Commercialization of Corrosion Resistance Coating with improved durability, \$25,000
- Daniel Schmidt, Akshay Kokil; Plastics Engineering, Vinyl hydroxyl ether resins (VHER): A new family of resins, \$25,000

Faculty Recipients of the MTTC Commercialization Seed Fund Phase 2 Awards in FY16 *

- Daniel Schmidt; Plastics Engineering, Bisphenol A (BPA) Free Epoxy Resins for Food Can Liners, \$40,000
- Pradeep U. Kurup, Civil Engineering, Versatile Electronic Tongue for Environmental Monitoring and Food Safety Applications, \$40,000
- Erno Sajo, Physics, Radiation detection and monitoring for radiation safety and medical applications employing self-powered High Energy Current nanofilms, \$40,000
- Xingwei Wang, Electrical & Computer Engineering, Catheter Based Ultrasound fiber optic temperature distribution measurement system for controlling the radiofrequency ablation, \$40,000

Faculty Finalists for the MassCEC Awards in FY16

- Jayant Kumar, Perovskite-based flexible Solar Cells

Faculty selected to present their Technology at the First MATTO Food Forum

- Dan Schmidt
- Pradeep Kurup

Faculty Receiving Innovation Awards for their Technology

- Pradeep Kurup, at TechConnect 2016

Faculty Submitting the Most Invention Disclosures in FY16

- Alkim Akyurtlu
- Christopher Hansen

Faculty interested in applying for these grants should contact OTC.

INNOVATION HUB

<http://www.uml.edu/ihub>

Tom O'Donnell	Director	Tom_ODonnell@uml.edu	978---934---2641
Lisa Armstrong	Asst. Director	Lisa_armstrong@uml.edu	978---934---6343
Harrison Frye	Lab Manager	Harrison_frye@uml.edu	

Mission

The UMass Lowell Innovation Hub is a new, 11,000 square-foot incubator, co-working and prototyping facility in downtown Lowell supporting early-stage, technology-based ventures from idea to impact. Owned and operated by UMass Lowell, the iHub provides flexible, affordable workspace, program, event, community, equipment and support offerings to member companies. In addition to the fabrication and prototyping lab on-site, member companies have access to broader university resources including testing and characterization equipment, labs, prototyping gear, libraries and collaborations with faculty researchers and student interns. Technology and industry clusters supported include information technology, embedded systems, robotics, instrumentation, sensors / controls / IoT, advanced materials, cleantech and advanced manufacturing. The iHub is open to both university spinoffs as well as startups from the broader greater Boston/Merrimack Valley region.

Shared Conference Rooms

Secure, Private Offices



Open, Shared Coworking & Café Area

Open, Dedicated Desks

Access Controlled Prototyping Lab

Services & Programs

- Variety of workspace options including private offices, dedicated desks, open co-working and shared collaboration spaces.
- Support services including conferencing facilities, internet access, printing / copying / scanning, kitchen / café and mail / Fedex / UPS.

- Access to broader UML resources including core research facilities, labs and libraries as well as collaborations with faculty / researchers and student interns.
- Access to Workbar's network of co-working facilities including core sites in Boston, Cambridge, Somerville and Arlington as well as Workbar's network of partner sites throughout Mass.
- A comprehensive portfolio of programs, events, workshops and seminars covering industry, technology and entrepreneur-focused topics and an expanding community of Innovation Hub stakeholders and supporters.

Milestone Accomplishments FY2016 (July 2015 – June 2016)

- Successfully launched the Innovation Hub in July 2015 and completed physical build out of required furniture, furnishings, supplies and equipment (including prototyping lab).
- Developed marketing & outreach collateral (including brochures and web site) and built out all required processes, procedures and legal infrastructure (e.g., agreements).
- Established a successful collaboration and operational partnership with Workbar, an owner / operator of co-working facilities in Boston, Cambridge, Somerville and Arlington.
- Grew the Innovation Hub member base to seventeen (17) total companies covering a variety of industry / technology sectors including robotics, sensors, enterprise software and embedded systems / Internet of Things (IoT).
- Expanded the community of Innovation Hub sponsors to include Choate, Arrow, SolidWorks and Enterprise Bank and increased outreach to additional target sponsors.
- Established partnerships and collaborations with quasi---government agencies, industry organizations and community groups including MassDevelopment, MassMEP, MassTLC, MassCEC, Mass Tech Collaborative, ACTION, SBANE, EForAll and Greater Lowell Chamber of Commerce.
- Successfully deployed a variety of programs, seminars and workshops including the Choate Legal Series, IoT Maker to Marketplace Workshop, MassTLC Robotics Advanced Manufacturing seminar, IoT Autonomous Vehicle & Robotics MeetUp and Perfect Pitch presentation workshop.
- Successfully hosted high profile meetings and events including the UMass Board of Trustees quarterly meeting, the Mass Legislative Innovation Board Meeting and the Deshpande Symposium Welcome Reception.

Unit Goals/Initiatives for FY 2017

- Grow iHub membership base to 35 – 40 companies by attracting and retaining leading edge, technology-based start-up ventures in the Merrimack Valley region.
- Expand portfolio of programs and events offered at the iHub and collaborations with university, corporate, government and industry partners.
- Strengthen financial sustainability of the iHub through increased membership fees, sponsorships and program / event fees.
- Expand Innovation Hub operations and programs to new Haverhill site.

Massachusetts Medical Device Development Center

<http://www.uml.edu/M2D2>

Stephen McCarthy	Founding Director	Stephen_McCarthy@uml.edu	
Nate Hafer	Director	Nathaniel.Hafer@umassmed.edu	
Margaret Koziel	Director	Margaret.Koziel@umassmed.edu	
Steven Tello	Director	Steven_Tello@uml.edu	
Mary Ann Picard	Director of Operations	MaryAnn_Picard@uml.edu	

Intro

M2D2 is a university based incubator program to advance early stage medical device and biotech innovations. It is a joint project between UMass Lowell and the UMass Medical School in Worcester. M2D2 maintains two facilities in Lowell, one that is approximately 20,000 square feet on two levels of the Wannalancit Mills complex and the second is approximately 11,000 square feet and is located in the Hamilton Canal Innovation District.

M2D2 provides flexible, affordable wet and dry lab spaces, private and co-working offices, educational and support programs, events, ecosystem, and equipment to emerging resident companies. In addition to the resources and equipment on site, resident companies have access to broader university resources at both UMass Lowell and the UMass Medical School, including testing and characterization equipment, assistance with clinical trials, labs, prototyping equipment, libraries and collaborations with clinicians, faculty researchers and student interns. M2D2 is open to both university spinoffs as well as startups from the greater Boston area. M2D2 is also able to provide soft landing space for startups based internationally and in other parts of the United States who want to take advantage of all the Boston start-up community has to offer.



M2D2 – Wannalancit Mills 2nd Floor M2D2 – 110 Canal Street, 4th Floor

Services & Programs

- Wet labs (private & shared), office space (private & shared), prototyping lab
- General support services include admin assistance, conference room and facilities, event space, internet access, print / copy / scan, shared kitchen area and mail /FedEx/UPS, lab vendor pick-up and drop-off.
- Lab support services include lab training, lab coats/cleaning, use of equipment, waste removal, EHS compliance.
- Access to broader UMass Lowell and UMass Medical School resources including core research facilities, labs and libraries as well as collaborations with faculty / researchers, clinicians and student interns.
- A comprehensive portfolio of programs, events, workshops and seminars covering industry, technology and entrepreneur-focused topics and an expanding community of M2D2 stakeholders and corporate supporters.

Milestone Accomplishments FY2016 (July 2015 – June 2016)

- Successfully launched the expansion of M2D2 in the fall of 2015 and completed the physical build-out to include furniture, furnishings, supplies and lab equipment.
- Updated marketing & outreach collateral (including brochures and web site) to include new shared lab facility.
- Established corporate in-kind sponsorships with equipment manufacturers / suppliers to include American Instrument Exchange, Waters Corp., Beckman Coulter and Corning Glass.
- Expanded M2D2's base of corporate sponsors and, most notably, became a designated Johnson & Johnson Innovation JLABs location, one of only six in the world.
- Successfully ran several programs and seminars, including the Venture Well ASPIRE series, grant writing, financing and pitch coaching sessions.
- Successfully hosted the 5th Annual \$100K Challenge which attracted more than 80 applicants from around the world.
- Successfully co-produced the first ever Diabetes Innovation Challenge which attracted more than 85 applicant start-up companies and awarded more than \$100,000 in cash and in-kind service awards.

Unit Goals/Initiatives for FY 2017

- Strengthen M2D2's financial picture by expanding the number of resident companies to 20-25 at M2D2's Canal Street lab facility and by maintaining a full roster at the Wannalancit Mills building.
- Expand corporate partnerships by successfully engaging with biotech industry companies such as Amgen, Lilly and Pfizer.
- Expand upon current educational programming according to a set calendar format throughout the year.

NEW VENTURE DEVELOPMENT

<http://www.uml.edu/NVI>

Staff	Staff Title	Staff Email	Staff Phone
Nancy Saucier	Director	Nancy_saucier@uml.edu	X4-3212
Anshuman Chadda	GEIR	Anshuman_Chadda@uml.edu	202---630---3201
Ruth Dubey	Admin. Assistant	Ruth_Dubey2@uml.edu	X4-3499

Mission

New Venture Development cultivates and supports startup skills development and related activity of UMass Lowell's faculty and research---oriented student and staff. Additionally, NVD provides a pathway and resources for university---owned innovation to become startups.

Services & Programs

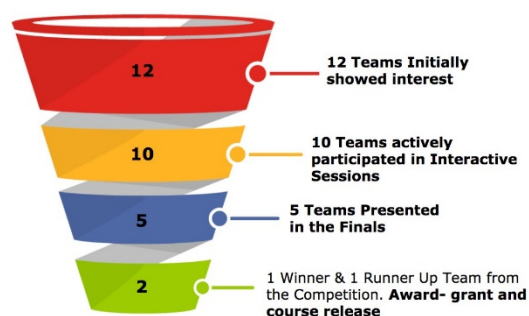
New Venture Development is a mix of university resources and equity investment as well as an 8 step process to guide internal research projects with high commercial potential through various activities to increase the likelihood of start---up success.



Tech Venture Program

Tech Venture Program is an educational opportunity that facilitates entrepreneurial thinking and skills among faculty members. The program offers a series of interactive sessions, and access to industry leading mentors during the Spring semester that culminates with a start-up style pitch before a panel of judges and investors where teams compete for course releases and small seed grants to pursue their business concepts. In 2016, 11 teams from across disciplines and schools participated, resulting in two awards --- Aquaterrene by Dr. Pradeep Kurup and BuzSaw by Dr. Joel Therrien.

Tech Venture Program 2016



Commercialization Funding

NVD has established an I-Corps Site in collaboration with The UMass Medical School, UMass Boston, and Middlesex Community College. This \$500,000 grant was recently awarded to UMass Lowell from the National Science Foundation. Small micro-grants of up to \$3,000 will be available later this year to support faculty commercialization projects with travel, event registration fees, materials, outsourced design, fabrication and testing, and consulting services.

NVD has also supported faculty teams in successfully securing both federal, state and UMass commercialization grants to further their start-up efforts.

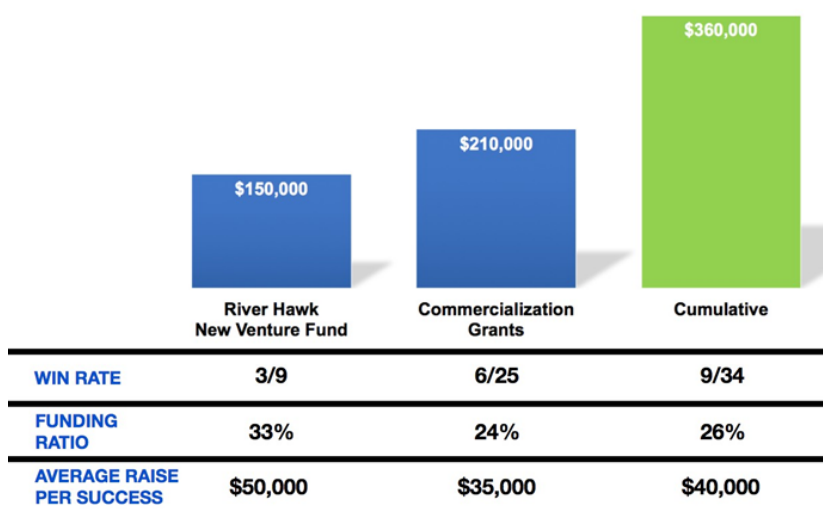
River Hawk Fund

The River Hawk New Venture Fund is an equity investment fund established with licensing revenue and alumni contributions to make pre-seed and seed stage investments into technologies that have been developed in whole or in part at the university. The fund completed three investments in 2016, two of which were UMass technologies, and will make three more investments during the first half of 2017—one of which is a UMass Lowell spin-out, Invitrometrix, which will develop a whole-cell biosensor with applications in drug discovery based on innovative research that resulted from the collaboration of Drs. Susan Braunhut, Ken Marx and Joel Therrien.

Milestone Accomplishments

New Venture Development has worked with faculty to assess and support 34 projects since its establishment in 2012. This effort has resulted in nearly 25% of all NVD projects receiving commercialization funding averaging \$35k in 2016.

Number of Projects Supported by the New Venture Initiative in 2016



FY2016 (July 2015 – June 2016)

- Successful launch of the Tech Venture program
- Funding of three University-affiliated startups through the River Hawk Venture Fund including one UMass Lowell spin-out—Weave Visual Analytics (n.k.a., Open Access Technologies) launched from the lab of Dr. Georges Grinstein.

Unit Goals/Initiatives for FY 2017

- Launch the UMass Lowell I-Corps Site Program and award up to \$50k to at least 10 UMass Lowell project teams.
- Grow the River Hawk New Venture Fund to \$1M during the next two years to better support UMass Lowell affiliated start-up activity.
- Increase Global Entrepreneur-In-Residence participation at UMass Lowell to include up to 10 new GEIRs to support faculty commercialization efforts.

NVD Awards

Faculty Supporting Startup Formation in FY16

Susan Braunhut	Biology	Start-up: Invitrometrix	Whole-cell biosensor
Kenneth Marx	Biology	Start-up: Invitrometrix	Whole-cell biosensor
Joel Therrien	ECE	Start-up: Invitrometrix	Whole-cell biosensor

Faculty Winning Tech Venture Program

Joel Therrien	ECE	BUZSAW
Pradeep Kurup	Civil & Environmental Eng.	Aquaterrene: heavy metal sensor

NSF I-Corps Grant Teams

Viktor Podolskiy	Physics	Photonics Composite Software
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NSF PFI AIR-TT Award

Zhiyong Gu	Chemical Engineering	Lead-free nano-solder scale up
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SBIR Phase I Award

Erno Sajo	Physics	Low cost, high sensitivity radiation detector
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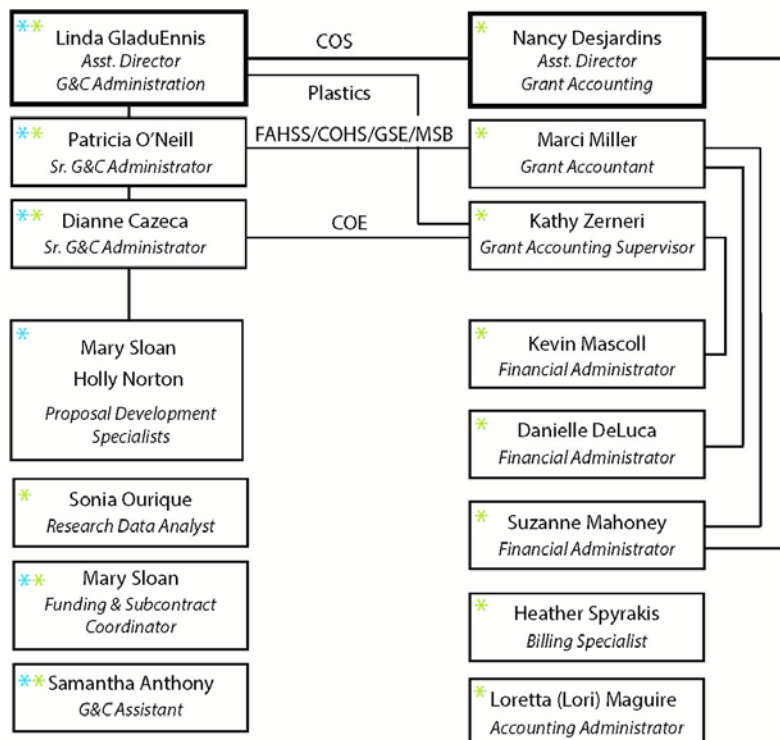
Research Administration and Institutional Compliance

ORA & OIC Organizational Chart

Anne Maglia
*Associate Vice Chancellor
RA & IC*

Office of Research Administration (ORA)

Susan Puryear
Director



Office of Institutional Compliance (OIC)

Elaine Major
Director



COS - College of Sciences
FAHSS - Fine Arts, Humanities, and Social Sciences
COHS - College of Health Sciences
GSE - Graduate School of Education
MSB - Manning School of Business
COE - College of Engineering
*Pre-Award *Post-Award

UML Research Administration and Institutional Compliance Contacts

AVC – Research Administration and Institutional Compliance Anne Maglia – x4-4254, Anne_Maglia@uml.edu

Office of Research Administration (ORA)

Susan Puryear, Director – x4-4170, Susan_Puryear@uml.edu

Funding Opportunity Identification

Mary Sloan – x4-4783, Mary_Sloan@uml.edu

Pre-award Services

Proposal preparation, review and submission; Grant award acceptance and award set-up; Contracts for sponsored research and research services; Subcontracting:

- Sciences, Plastics Engineering: **Linda Gladu Ennis** – x4-4718, Linda_GladuEnnis@uml.edu
- Engineering (minus Plastics): **Dianne Cazeca** – x4-4192, Dianne_Cazeca@uml.edu
- Health Sciences, Education, Business, FAHSS (see Andrew Dewing), Radiation Lab: **Patricia (Patti) O’Neill** – x4-3230, Patricia_ONeill@uml.edu

Post-award (Financial) Services

Purchase order/expenditure approvals; Account balances; Subcontractor invoices; Financial reporting;

Award closeout; Effort certification:

- FAHHS, Sciences, Radiation Lab: **Suzanne Mahoney**, x4-4726, Suzanne_Mahoney@uml.edu
- Engineering: **Kevin Mascoll**, x4-3646, Kevin_Mascoll@uml.edu
- Health Sciences, Education, Business: **Danielle DeLuca**, x4-3462, Danielle_DeLuca@uml.edu

Post-award (Non-Financial) Services

Modifications to existing awards - No Cost Extensions, Carry-forward requests, Re-budgeting requests, Subcontract modifications or extensions, Technical reporting, Items requiring prior approval:

- Sciences, Plastics Engineering: **Linda Gladu Ennis** – x4-4718, Linda_GladuEnnis@uml.edu
- Engineering (minus Plastics): **Dianne Cazeca** – x4-4192, Dianne_Cazeca@uml.edu
- Health Sciences, Education, Business, FAHSS (see Andrew Dewing), Radiation Lab: **Patricia (Patti) O’Neill** – x4-3230, Patricia_ONeill@uml.edu

External reporting (technical); Contracts for Services (Vendors):

Samantha Anthony – x4-4987, Samantha_Anthony@uml.edu

Office of Institutional Compliance (OIC)

Reporting Non-compliance and Misconduct; Outside Activity Disclosures; Conflicts; Responsible Conduct in Research

Elaine Major, Director – x4-3452, Elaine_Major@uml.edu

Export Compliance

Thomas Porro, – x4-3207, Thomas_Porro@uml.edu

Use of Vertebrate Animals in Research (IACUC)

Amy Finneral, – x4-4698, Amy_Finneral@uml.edu

Use of Human Subjects in Research (IRB), Institutional Biosafety Committee (IBC) Administration

Emily Sousa, – x4-4134, Emily_Sousa@uml.edu

Office of Research Administration

Susan Puryear, Director

The Office of Research Administration works with faculty on proposal submissions, funding opportunities, interactions with program managers, and negotiations of grants and contract agreements. ORA also works closely with Research Accounting (under Finance and Operations) to assist with no-cost extensions, budget modifications, and other project management.

Annual Awards Received - By College

	2014	2015	2016
College of Sciences	\$ 13,675,673	\$ 21,210,720	\$ 12,366,877
College of Fine Arts, Humanities & Social Sciences	\$ 4,040,831	\$ 4,011,463	\$ 1,410,391
Graduate School of Education	\$ 1,119,954	\$ 2,143,977	\$ 1,389,352
College of Engineering	\$ 8,923,420	\$ 12,161,096	\$ 10,057,002
College of Health Sciences	\$ 8,208,717	\$ 9,862,088	\$ 7,872,452
Manning School of Business	\$ 301,232	\$ 569,750	\$ 59,500
University Level	\$ 696,438	\$ 12,717,483	\$ 1,071,271
TOTAL	\$ 36,966,264	\$ 62,676,576	\$ 34,226,845

Annual Proposals Submitted - By College

	2014		2015		2016	
	QTY	\$	QTY	\$	QTY	\$
Kennedy College of Sciences	143	\$ 55,456,204	144	\$ 66,011,907	166	\$ 63,822,798
College of Fine Arts, Humanities & Social Sciences	44	\$ 11,717,165	53	\$ 11,807,180	63	\$ 5,901,413
Graduate School of Education	15	\$ 757,696	25	\$ 3,827,174	23	\$ 5,274,517
Francis College of Engineering	170	\$ 35,226,761	201	\$ 65,558,821	189	\$ 59,064,158
College of Health Sciences	68	\$ 15,792,907	55	\$ 25,306,848	65	\$ 24,859,770
Manning School of Business	6	\$ 4,705,071	5	\$ 635,578	3	\$ 739,715
University Level	5	\$ 7,916,317	8	\$ 50,625,112	2	\$ 3,668,065
TOTAL	451	\$ 131,572,121	491	\$ 223,772,620	511	\$ 163,330,437

Success of Proposals Submitted in FY15*

ALL SPONSORS

	Proposals	Awards	Success Rate
Federal	284	94	33%
Non-Profit	63	29	46%
State & Local	30	22	73%
Industry	87	51	59%
Foreign	13	8	62%
Total	477	204	43%

Federal Sponsor Detail

	Proposals	Awards	Success Rate
Air Force	11	6	55%
ARMY	6	1	17%
NAVY	6	5	83%
Other DOD	10	0	0%
Total DOD	33	12	36%

	Proposals	Awards	Success Rate
NIH	44	9	20%
NIOSH	2	2	100%
CDC	4	3	75%
HRSA	0	0	0%
SAMHSA	0	0	0%
DHHS	6	5	83%
DHHS TOTAL	56	19	34%

	Proposals	Awards	Success Rate
Dept. of Education	4	1	25%
Dept. of Energy	14	6	43%
EPA	3	1	33%
NASA	14	4	29%
NIST	2	2	100%
NSF	111	28	25%
Other Federal	47	21	45%
TOTAL	195	63	32%

*Since awards are generally made 6-9 months after proposals are submitted, data provided shows awards received to date on proposals submitted in FY15.

FY16 Total Expenditures Top 3 Faculty by College

Kennedy College of Sciences

1. Giles,Robert H
2. Yanco,Holly
3. Montesalvo,Mary A

Graduate School of Education

1. Kirschbaum,Sheila L.
2. Wyman-Colombo,Michaela
3. Greenwood,Anita

Francis College of Engineering

1. Armiento,Craig
2. Yoon,Seongkyu
3. Sherwood,James A.

College of Health Sciences

1. Slatin,Craig
2. Tucker,Katherine Louise
3. Punnett,Laura

Manning School of Business

1. Li,Xiaobai
2. Motiwalla,Luvai F.
3. Yang,Yi

College of Fine Arts, Humanities and Social Sciences

1. Turcotte,David
2. Horgan,John Gerard
3. Harris,Andrew

University

1. Carter,Kathryn
2. Tello,Steven F.
3. Moloney,Jacqueline

FY16 Total Expenditures by PI

PI	Amount
Giles,Robert H	\$ 4,344,610
Slatin,Craig	\$ 1,569,627
Tucker,Katherine Louise	\$ 1,403,958
Punnett,Laura	\$ 1,386,445
Armiento,Craig	\$ 1,316,106
Yanco,Holly	\$ 958,270
Kriebel,David	\$ 849,752
Carter,Kathryn	\$ 776,556
Yoon,Seongkyu	\$ 749,884
Quinn,Margaret M.	\$ 676,252
Kirschbaum,Sheila L.	\$ 660,542
Chowdhury,Partha	\$ 602,652
Montesalvo,Maria A	\$ 577,608
Chakrabarti,Supriya	\$ 559,075
Sun,Yuyu	\$ 516,970
Tickner,Joel	\$ 503,885
Mead,Joey L.	\$ 493,829
Turcotte,David	\$ 446,415
Sherwood,James A.	\$ 444,989
Yan,Mingdi	\$ 419,818
Horgan,John Gerard	\$ 384,820
Hansen,Christopher J	\$ 377,015
Luo,Yan	\$ 374,093
Cook,Timothy	\$ 367,798
Martin,Fred	\$ 363,062
Nagarajan,Ramaswamy	\$ 353,695
Saenko,Ekaterina	\$ 347,841
Wang,Xingwei	\$ 344,124
Niezrecki,Christopher	\$ 337,015
Tello,Steven F.	\$ 327,414
Bello,Dhimiter	\$ 320,068
Chandra,Kavitha	\$ 317,459
Jahngen,Edwin G	\$ 308,914
Cao,Yu	\$ 306,827
Wyman-Colombo,Michaela	\$ 300,029
Galkin,Ivan	\$ 290,602
Schmidt,Daniel	\$ 278,079
Vokkarane,Vinod Mandayam	\$ 277,451
Amirkhizi,Alireza Vakil	\$ 273,825

PI	Amount
Xu,Jin	\$ 268,867
Greenwood,Anita	\$ 264,616
Stonely,Paul	\$ 249,693
Chen,Julie	\$ 244,873
Woskie,Susan	\$ 238,375
Sobkowicz Kline,Margaret J	\$ 236,179
Aghara,Sukesh	\$ 224,468
Wang,Jie	\$ 218,218
Avitabile,Peter	\$ 198,794
Johnston,Stephen P.	\$ 196,207
Lawton,Carl W.	\$ 193,905
Ge,Tingjian	\$ 192,944
Garb,Jessica E.	\$ 181,765
Akyurtlu,Alkim	\$ 181,340
Harris,Andrew	\$ 171,956
Chiang,Long Y	\$ 168,490
Tu,jiannan	\$ 166,517
Ellenbecker,M J	\$ 166,423
Yu,Tzu-Yang	\$ 165,346
Yu,Hengyong	\$ 161,650
Barry,Carol M.F.	\$ 160,887
Toof,Robin	\$ 158,093
Handelman,Garry J	\$ 154,294
Sajo,Erno	\$ 152,443
Podolskiy,Viktor	\$ 143,876
Buchholz,Bryan O	\$ 136,914
Lister,Christopher J	\$ 134,950
Song,Paul	\$ 132,784
Lustick,David	\$ 131,428
Lazonick,William H.	\$ 130,592
Rai,Prakash	\$ 128,680
Orbey,Nese	\$ 128,131
Brown,Gilbert	\$ 123,751
Margala,Martin	\$ 122,003
Moloney,Jacqueline	\$ 116,155
Mandell,Charlotte C	\$ 115,751
Gu,Zhiyong	\$ 112,451
Hines,Mark E.	\$ 110,403
Gaines,Peter C.	\$ 106,394
Liu,Benyuan	\$ 106,314
Barsegov,Valeri	\$ 105,360

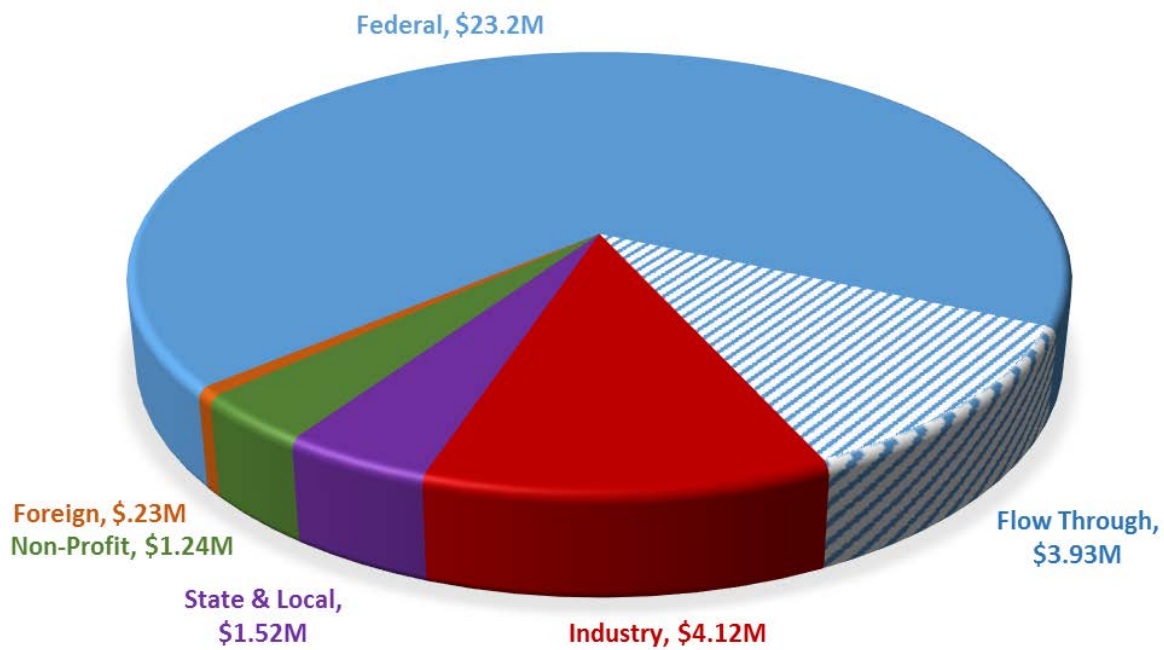
PI	Amount
Prasad,Kanti	\$ 104,708
Whitten,James E.	\$ 103,864
Reynaud,Emmanuelle	\$ 103,756
Gage,Matthew J.	\$ 102,472
Chigan,Chunxiao	\$ 102,294
Grinstein,Georges	\$ 99,068
Willis,David J.	\$ 98,725
Lu,Xuejun	\$ 98,598
Hartman,Joseph Christopher	\$ 96,997
Falcon,Luis M.	\$ 96,698
Ruths,Marina C.	\$ 95,900
Block,Stephanie	\$ 94,746
Qian,Xifeng	\$ 91,341
Xie,Yuanchang	\$ 90,540
Gamache,Robert R.	\$ 89,378
Feldeisen,Sabrina Noel	\$ 89,251
Lohmeier,Jill	\$ 87,619
Weitzen,Jay A	\$ 85,168
Beddoes,Kacey Dawn	\$ 82,708
Swanger,Kate MacKenzie	\$ 80,175
Fish,Jennifer Leslie	\$ 77,905
Laycock,Silas	\$ 77,130
Sun,Hongwei	\$ 76,051
Hoppin,Polly	\$ 75,919
Forest,James J.F.	\$ 75,308
Gatesman,Andrew J.	\$ 70,952
Kurup,Pradeep U.	\$ 69,276
Braunhut,Susan J.	\$ 67,579
Hu,Tingshu	\$ 67,024
Shen,Mengyan	\$ 63,968
Gartner,Nathan	\$ 63,618
Flum,Marian	\$ 63,589
Pakstis,John C.	\$ 62,838
Faust,Rudolf	\$ 61,558
Williams,Linda	\$ 59,136
Kumar,Jayant	\$ 53,599
Rumshisky,Anna	\$ 53,592
Inalpolat,Murat	\$ 52,083
Barlow,Mathew	\$ 50,761
Malloy,Robert A	\$ 49,696
Forrant,Robert	\$ 47,101

PI	Amount
Seymour,Connie J	\$ 47,077
Hochberg,Rick	\$ 46,808
Lai,Fang S	\$ 46,602
Hall,Garth F.	\$ 44,826
Wang,Dean	\$ 44,357
McCarthy,Stephen P.	\$ 43,273
Harris,Christopher J.	\$ 39,823
Rooney-Varga,Juliette N.	\$ 39,081
Rayman,Paula M	\$ 37,823
Fu,Xinwen	\$ 36,314
Melillo,Karen D	\$ 34,858
Lyubchenko,Taras	\$ 32,541
Trelles,Juan Pablo	\$ 32,354
Tracy,Paul E	\$ 32,308
Morabito,Melissa Schaefer	\$ 31,826
Pattavina,April F.	\$ 31,826
Boccia,Judith A	\$ 31,318
Gordon,Thomas	\$ 30,883
Orroth,Stephen A	\$ 30,445
Fantasia,Heidi C.	\$ 30,384
Ibe,Oliver C.	\$ 29,064
Shea,Thomas B.	\$ 28,659
Guo,Wei	\$ 27,735
Lewis,Sumudu Rupika	\$ 27,601
Dowling,Jacqueline	\$ 27,106
Heines,Jesse M	\$ 27,003
Walzer,Daniel A	\$ 26,980
White,John R	\$ 26,854
Qian,Jian-Hua	\$ 26,666
Greher,Gena R.	\$ 25,840
Megherbi,Dalila B.	\$ 25,805
Raptis,Ioannis	\$ 25,314
Kim,Min Jeong	\$ 24,867
Serna,Richard	\$ 24,520
Stamatiadis,Chronis	\$ 24,454
Wilson,Thomas A.	\$ 24,271
Moore,Jeffrey Robert	\$ 23,684
Garelnabi,Mahdi O.	\$ 23,104
Tries,Mark A.	\$ 21,563
Ryan,David K	\$ 21,372
Chow,Kwok Fan	\$ 20,408

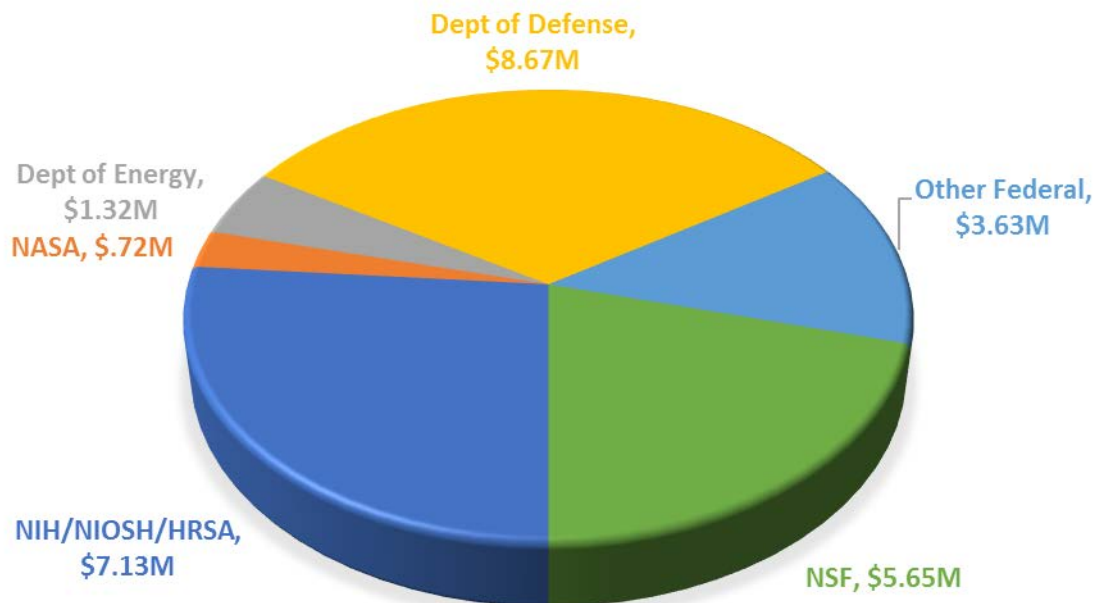
PI	Amount
Wong,Hsi-Wu	\$ 18,188
Shina,Sammy G	\$ 17,729
Newton,Xiaoxia Ai	\$ 17,632
Mil'shtein,Samson	\$ 17,610
Chen,Guanling	\$ 17,383
Abdallah,Lisa M.	\$ 16,263
Knight,Margaret	\$ 16,263
Simons,Shellie R.	\$ 16,263
Mass,William	\$ 15,397
Bond,Meg A.	\$ 14,141
Laccetti,Margaret Agnes	\$ 13,986
Marx,Kenneth A	\$ 13,795
Dyck,Joshua	\$ 13,168
Hillier,Ashleigh J.	\$ 10,536
Sullivan,Daniel	\$ 10,524
McCarthy,John Adam	\$ 10,136
Bobek,Leo M.	\$ 9,196
Ho,Ivy K.	\$ 8,835
Winning,Susan B.	\$ 8,252
Brunette,Maria	\$ 7,718
Keough,Lori A.	\$ 6,993
Archibald,Diana C.	\$ 6,561
Rydberg,Jason Michael	\$ 6,028
He,Gui-Xin	\$ 5,880
Charmchi,Majid	\$ 5,382
Li,Xiaobai	\$ 5,324
Sousa,Frank F	\$ 5,000
Paikowsky,Samuel	\$ 4,849
Mawn,Barbara	\$ 4,780
Sandman,Daniel J.	\$ 4,439
Koren,Ainat	\$ 4,350
Haines,Paula	\$ 4,142
Driscoll,Stephen B	\$ 4,074
Socia,Kelly	\$ 3,981
Kingsley,David	\$ 3,651
Motiwalla,Luvai F.	\$ 3,549
Thind,Herpreet Kaur	\$ 3,537
Gine,Roser A	\$ 3,482
Marks,Sara	\$ 3,000
Bloom,Mia M	\$ 2,734
Walkinshaw,John W	\$ 2,559

PI	Amount
Graves,Michael V.	\$ 2,544
Roehr,Karen E	\$ 2,040
Siegel,Richard A	\$ 1,859
Fisher,William H	\$ 1,673
Wu,Yi - Ning	\$ 1,349
Yaroslavsky,Anna	\$ 935
Yang,Yi	\$ 846
Propp,James	\$ 776
Ambe,Elizabeth B.	\$ 494
Szczesiul,Stacy Agee	\$ 460
Pagsuyoin,Sheree	\$ 352

FY2016 FUNDING BY SPONSOR



FY2016 FEDERAL FUNDING BY AGENCY



Office of Institutional Compliance (OIC)

Elaine Major, Director

Key personnel are:

Thomas Porro, Export Control Compliance Manager

Amy Finneral, Animal Research Compliance Manager

Emily Sousa, IBC and IRB Administrator

Office of Institutional Compliance (OIC) is responsible for UMass Lowell's compliance with Federal, State, and Local regulations related to export controls, research activities with human subject and animals, radiation safety, use of biohazardous materials, and conflicts of interest. Regulations are becoming increasingly more complex and difficult to understand and navigate. Contact OIC staff with any questions and to understand how to accomplish your research goals while complying with increasingly complex regulations.

2016 Summary of Activities

Faculty/Staff Serving on Committees: 50 (4 persons serving on 2 or more committees)

Highlights by Activity:

Institutional Animal Care and Use Committee (IACUC)

- 5 new protocols by 5 faculty
- 9 active by 5 faculty/staff
- 6 amendments
- Two new satellite facilities approved

Institutional Biosafety Committee (IBC)

- 26 new registrations with 61 active by 23 faculty/staff
(Includes 4 new registrations from M2D2 companies)
- 29 amendments

Institutional Review Board (IRB)

- 169 new protocols (81 Exemptions, 85 Expedited, 3 Full Review)
- 380 active (not including exempt approvals) by 135 faculty
- 211 Amendments
- 91 Continuing Reviews
- 86 sponsored by 48 federal agencies, 60 internally funded, 234 unsponsored

Export Compliance

- 328 International Travel Authorizations to 59 countries
- 95 certification letters for travel with electronic devices
- 31 physical exports by 21 faculty/staff to 19 countries
- 272 faculty/students/staff provided awareness training at 20 events
- 97 sponsored research / research service agreements reviewed

Outside Activity Reports and Conflicts Committee Reviews

- 79 new or updated disclosures by faculty
- 6 new disclosures by staff
- Conflicts Committee Activity - 4 cases submitted to UMP for management plan
- 0 Disclosures with federally funded awards

Radiation Safety Committee (RSC) (3 additional subcommittees with 18 members)

- 12 Authorized/active radiation users
- 10 Authorized/active x-ray users
- 10 Authorized/active laser users

UMass Lowell Compliance Committee Members through 2016

(Additional Community Volunteer Members Not Listed)

Institutional Animal Care & Use Committee (IACUC)

Thomas Wilson, Chair, Faculty, Biomedical & Nutritional Science

- Peter Gaines, Faculty, Biological Sciences
- Susan Woskie, Faculty, Public Health
- Glenn MacDonald, Director, EHS
- Jennifer Fish, Faculty, Biological Sciences
- Mahdi Garelnabi, Faculty Biomedical & Nutritional Sciences
- Elaine Major, Director, OIC
- Amy Finneral, Staff, OIC

Institutional Biosafety Committee (IBC)

Nancy Goodyear, Chair, Faculty, Biomedical & Nutritional Sciences

- Matthew Gage, Faculty, Chemistry
- Susan Woskie, Faculty, Public Health
- Ruth Medina, Biosafety Specialist, EHS
- Peter Gaines, Faculty, Biological Sciences
- Donato Vespa, Staff, Biomanufacturing Center
- Guixin (Susan) He, Faculty, Biomedical & Nutritional Science
- Dhimiter Bello, Faculty, Public Health
- Elaine Major, Director, OIC
- Emily Sousa, Staff, OIC

Institutional Review Board (IRB)**Jill Lohmeier, Chair, Faculty, Graduate School of Education**

Melissa Morabito, Faculty, Criminal Justice & Criminology

Doreen Arcus, Faculty, Psychology

Joyce White, Faculty, Physical Therapy

Sabrina Noel, Faculty, Biomedical & Nutritional Science

Margaret Knight, Faculty, Nursing

Robin Toof, Center Co-Director, Center for Community Research & Engagement

Leland Ackerson, Faculty, Community Health & Sustainability

Jason Rydberg, Faculty, Criminal Justice & Criminology

Paulette Renault-Caragianes, Assistant Dean, Student Affairs for Health and Wellness

Elaine Major, Director, OIC

Emily Sousa, Staff, OIC

Radiation Safety Committee (RSC)**Sukesh Aghara, Chair, Faculty, Chemical Engineering-Nuclear****Nelson Eby, Vice-Chair, Faculty, Environment, Earth & Atmospheric Sciences**

Nouredine Melikechi, Dean, Kennedy College of Sciences

Mark Hines, Faculty, Biological Sciences

Susan Braunhut, Faculty, Biological Sciences

Leo Bobek, Supervisor, Nuclear Reactor

Joel Therrien, Faculty, Electrical & Computer Engineering

Steven Snay, Director, EEM

Richard Lemoine, Exec. Director, EEM

Andrew Rogers, Faculty, Physics & Applied Physics

Elaine Major, Director, OIC

UMass Lowell, Conflicts Committee**Julie Chen, Campus Oversight and Representative to UMass System, Vice Chancellor for Research & Innovation****Sanjeev Manohar, Chair, Chemical Engineering**

Anne Maglia, Associate Vice Chancellor Research Administration & Institutional Compliance

Carl Lawton, Faculty, Chemical Engineering

Tom Gordon, Faculty, Psychology

Natalie Houston, Faculty, English

Lorraine Dagostino, Faculty, Graduate School of Education

Judith Davidson, Faculty, Graduate School of Education

Bob Li, Faculty, Operations Information Systems

Ying Huang, Faculty, Marketing Entrepreneurship & Innovation

Shellie Simons, Faculty, Nursing

Margaret Knight, Faculty, Nursing

Partha Chowdhury, Faculty, Physics & Applied Physics

Jeffrey Moore, Faculty, Biological Sciences

Elaine Major, Director, OIC

Strategic Alliances and Industry Partnerships

Arlene Parquette, Director of Business Development

Key personnel are:

Teri Hamelin, Core Research Facilities Director

Tom Ferraguto, Nanofabrication Laboratory Director

With a focus on research partnerships, the Office of Strategic Alliances and Industry Partnerships includes the Core Research Facilities and Business Development. The mission of this group is to establish more collaborations and partnerships with industry with the following goals:

- Expand opportunities for research collaborations with industry
- Increase industry funding for research
- Enhance increase visibility of the UML research enterprise

Business Development serves as a resource to assist research faculty and research centers:

- Development of strategy for seeking industry support
- Establishing initial contact with prospective industry partners
- Negotiation of business/legal terms in sponsored research agreements (e.g. IP rights, confidentiality)
- Function as point of contact for follow up activities

Manufacturing USA Institutes (UMass Lowell contact, TPM = Technical Program Manager):

- AmericaMakes (Additive Manufacturing) – Craig Armiento, Alkim Akyurtlu, and Ed Kingsley (TPM)
- NextFlex (Flexible Electronics) – Joey Mead, Claire Lepont (TPM)
- AFFOA (Fibers & Textiles) – Ram Nagarajan, Cheryl Gomes (TPM)
- NIIMBL (Biomanufacturing) – Seongkyu Yoon
- AIM (Photonics) – Wei Guo
- REMADE (Clean Energy Manufacturing Recycling) – Meg Sobkowicz-Kline
- ARM (Robotics) – Holly Yanco
- IACMI (Composites) – Jim Sherwood

Core Research Facilities

Theresa (Teri) Hamelin, Director



Theresa Hamelin, Director
CRF Business Office
Kristin Bourgault, Bus. Coord. (P/T)



FY 2016 Summary

NanoFabrication Laboratory (NFL)

Director: Thomas Ferraguto
Staff: Jay Goodman
Miguel Matos (P/T)
Rebecca Powers

Thermal and Mechanical Properties (TMP)

Staff: Patrick Casey (P/T)

Biomolecular Characterization Lab (BCL)

Manager: Wendy Gavin
Staff: Jack Lepine



Material Characterization Lab (MCL)

Manager: Dr. Earl Ada
Staff: Miguel Matos (P/T)

Nuclear Magnetic Resonance (NMR)

Manager: Wendy Gavin (P/T)

Nerve Center CRF

Faculty Director: Holly Yanco
Manager: Adam Norton (P/T)
Staff: Brendan Haugland (P/T)



Let us help you with your research

Revenue Increase since FY 2015

up 72% !

Industry revenue up 58.3%
Internal revenue up by 6.3%

CRF reaches 668 Registered users!

34% increase

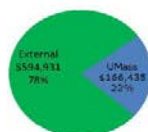
- **72 new accounts**
- **11 Faculty, 61 External**

Including faculty and students from our sister campuses.

UMass System

Collaboration with Core Directors to promote resources at each campus and support infrastructure development.

Total Revenue \$761,366
Increase of 72% from FY2015



FY 2016 9001 Total Orders
51% increase from FY 2015



Trained 170 new users

Partnership with Co-op Center

Undergraduate co-op's trained in CRF

Conferences :

Tom Ferraguto: Presentation at UGIM
Earl Ada: Taught "short course" at AVS

Educational and Community Outreach

(Partial listing)

Workshops & Seminars

- Basics & Physical Vapor Deposition
- Next Gen Sequencing
- Molecular spectroscopy in materials science
- ddPCR and PrimePCR
- Flow Cytometry
- Spectroscopy
- Microscopy

Events & Demos

- NERVE Center Open Houses
- CRF Showcase with Clean Tech Incubators
- Co-hosted ISPE meeting
- Ed. Demos to Lowell High, Waldorf School and
- Lowell's Girls and Boys Club

The CRF would like to recognize and thank the following faculty for their significant contributions and service in promoting the CRF on campus and externally in FY 2016:

**Alireza Amirkhizi
Christopher Hansen
Stephen Johnston
Matthew Nugent**

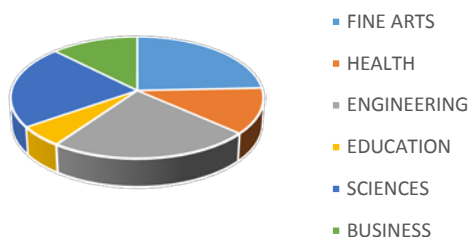
**James Sherwood
Meg Sobkowicz-Kline
Holly Yanco**

Faculty Intellectual Contributions

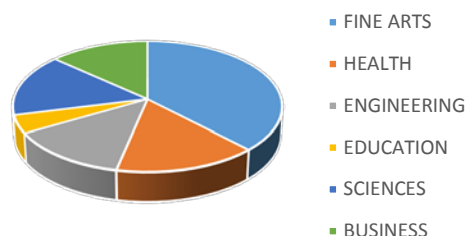
January 1, 2016 – December 31, 2016

	Fine Arts	Health	Engineering	Education	Sciences	Business	Totals
Participants	80	40	77	18	73	41	329
Books	18	1	1	1	3	1	25
Book Chapters	17	7	6	2	7	6	45
Journal Articles	171	168	189	20	233	100	881
Conference Proceedings	13	13	120	2	71	25	244
Other	5	1	10	0	4	1	21
Exhibits/Presentations	16	0	0	0	0	0	16

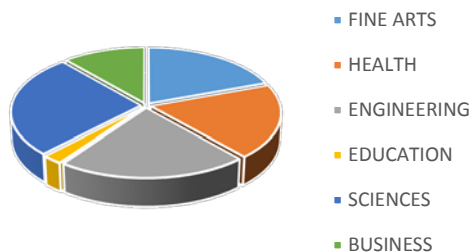
Number of Faculty Participants by College



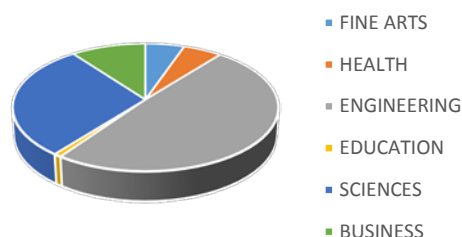
Number of Book Chapters



Number of Journal Articles



Number of Conference Proceedings



The scholarly work reflected in these data reflect the information in Digital Measures as of 12/31/2016. We thank the faculty who worked with us in making their corrections, which have been included in the electronic booklet; however were not included in the summary analysis. If additional corrections are needed in the electronic booklet, please contact Sharon.Freeman@uml.edu. Special thanks to the library staff who diligently searched faculty publications: Tony Sampas, Ellen Keane, George Hart, Kim Martin, Debby Friedman, Donna Mullin, and Sara Marks; and to Aisling McEleney, Francis College of Engineering Class of 2020 (Biomedical Engineering) for assistance compiling the booklet.

FACULTY BOOKS

College of Fine Arts, Humanities and Social Sciences

Art & Design

Ingrid Hess

Hess, I. (2016). *Haiti + Fair Trade = Hope*. Artisan Business Network.

School of Criminology & Justice Studies

Kareem Jordan

Freiburger, Tina L., Jordan, Kareem L., (2016). *Race and ethnicity in the juvenile justice system*.

Economics

William Lazonick

Zhou, Y., Lazonick, W. H., Sun, Y. (2016). *China as an Innovation Nation*. Oxford University Press.

Carol McDonough

Lee, I. (2016). *Encyclopedia of E-Commerce Development, Implementation, and Management*. IGI Global.

David Turcotte

Johnson, M.P., Keisler, J., Solak, S., Turcotte, D. A., Bayram, A. and Drew, R. B. (January (1st Quarter/Winter) 2016). *Decision Science for Housing and Community Development: Localized and Evidence-Based Responses to Distressed Housing and Blighted Communities* (pp. 374). Hoboken, New Jersey: John Wiley & Sons Inc.

English

Margaret Dietz

Dietz, Maggie, (2016). *That kind of happy*.

Michael Milner

Michael Millner, “‘The Feels’: Jack London and the New Mass Cultural Public Sphere,” *The Oxford Handbook of Jack London*, ed. Jay Williams, Oxford: Oxford University Press, 2016, 112-128.

Jonathan Silverman

Silverman, Jonathan and Meghan Sweeney, eds. *Remaking the American College Campus: Essays* (Jefferson, N.C.: McFarland, 2016).

Todd Tietchen

Kerouac, Jack,, Tietchen, Todd F.,, Cloutier, Jean-Christophe,, Kerouac, Jack,, Kerouac, Jack,, (2016). *The unknown Kerouac: rare, unpublished & newly translated writings*.

Music Department

William Moylan

Moylan, William. “How to Listen, What to Hear: Navigating the Mix.” *Mixing Music, Perspectives on Music Production*, edited by Russ Hepworth Sawyer and Jay Hodgson, pp. 24-52. Oxford, UK and New York: Focal Press, Routledge, Taylor & Francis. Publication date: 2017. Publically available ahead of print: <https://www.routledge.com/Mixing-Music/Hepworth-Sawyer-Hodgson/p/book/9781138218734>.

Philosophy

John Kaag

Kaag, J. J. (2016). *American Philosophy: A Love Story*.

Whitley Kaufman

Kaufman, W. R.P. (2016). *Human nature and the limits of Darwinism* (pp. vi, 222 pages). New York: Palgrave Macmillan.

Political Science

Deina Abdelkader

Abdelkader, D., Adiong, N. M., Mauriello, R. (2016). *Islam and international relations: contributions to theory and practice*.

Noel Twagiramungu

Twagiramungu, Noel (2016). "Burundi: The anatomy of mass violence endgames."
in *How Mass Atrocities End: Studies from Guatemala, Burundi, Indonesia, Sudan, Bosnia-Herzegovina, and Iraq*. Edited by Bridget Conley-Zilkic. New York: Cambridge University Press, pp.56-82

Sociology

Adrian Cruz

Cruz, A. (2016). *Borderlands: Contested Crossings, Contested People..*

Daniel Egan

Egan, D. (2016). *The Dialectic of Position and Maneuver: Understanding Gramsci's Military Metaphor*. Leiden: Brill.

World Languages and Cultures Department

Sheryl Postman

Postman, Sheryl L, Tamburri, Anthony Julian (2016). *Re-reading Rimanelli in America: Six decades in the United States*. New York: Bordighera Press.

Mamadou Samb (New Faculty Member)

Samb, M. (2016). *Le sang de Fanta : théâtre : une adaptation du roman "Le regard de l'aveugle*. Le Plessis-Trévis: Teham éditions.

College of Health Sciences

Physical Therapy

Joyce White

Norkin, C.C. and White, D.J. (2016). *Measurement of joint motion: a guide to goniometry*, ed 5. Philadelphia, PA: F.A. Davis Co.

Francis College of Engineering

Plastics Engineering

David Kazmer

Kazmer, D. O. (2016). *Injection Mold Design Engineering (2nd Edition)*. Hanser Publishers.

Graduate School of Education

Curriculum & Instruction

Judith Davidson

Davidson, J., Thompson, S., Harris, A. (2016). *Negotiating Digital Tools on Complex Research Teams: Dilemmas for Qualitative Research and QDA Software*.

Kennedy College of Sciences

Environmental, Earth & Atmospheric Sciences

Nelson Eby

Eby, G. N. (2016). *Principles of environmental geochemistry*. Waveland Press.

Mathematical Sciences

Wilfred Ngwa

Ngwa, W., Ngoma, T. (2016). *ICT-powered models of global radiation oncology*. IOP Publishing.

Manning School of Business

Khondkar Karim

Karim, K. (Ed.) (2016). *Advances in accounting behavioral research*. Vol 19. Emerald Publishing Limited.

OTHER PUBLICATIONS & EXHIBITS

College of Fine Arts, Humanities and Social Sciences

Falcón, Luis

Journal Articles

- Sotos-Prieto, M., Bhupathiraju, S., Falcon, L., Gao, X., Tucker, K. L., Mattei, J. (2016). A Healthy Lifestyle Score is Associated with Inflammation Markers among Puerto Rican Adults. *The FASEB Journal*, 29(1 Supplement), 393–2.
- Arevalo, S. P., Bazzi, A. R., Falcon, L., Tucker, K. L. (2016). Alcohol Use And Cardiovascular Risk In A Prospective Cohort Study Of Latino Adults: The Mediating Effect Of Inflammation. *The FASEB Journal*, 30(1 Supplement), 1154–4.
- Sotos-Prieto, M., Bhupathiraju, S., Falcon, L., Gao, X., Tucker, K. L., Mattei, J. (2016). Association Between A Healthy Lifestyle Score And Inflammatory Markers Among Puerto Rican Adults. *Nutrition, Metabolism and Cardiovascular Diseases*, 26(3), 178–184.
- Bigornia, S., Tucker, K. L., Falcon, L., Harris, W. (2016). Higher Red Blood Cell n-3 Fatty Acid Composition Prospectively Relates to Lower Depressive Symptomatology. *The FASEB Journal*, 29(1 Supplement), 119–7.
- Mattei, J., Mendez, J., Falcon, L., Tucker, K. L. (2016). Perceptions and Motivations to Prevent Heart Disease among Puerto Ricans. *American Journal of Health Behavior*, 40(3), 322 - 331.
- Arevalo, S. P., Scott, T. E., Falcon, L., Tucker, K. L. (2016). Plasma PLP Concentration and Depressive Symptomatology in Older Latino Adults: A Longitudinal Analysis with time-varying Covariates. *The FASEB Journal*, 30(1 Supplement), 290–2.
- Guzzardo, M. T., Adams, W. E., Todorova, I. L., Falcon, L. (2016). Resonating Sentiments on Puerto Rican Identity Through Poetry Voices of the Diaspora. *Qualitative Inquiry*, 1077800415622485.
- Arévalo, S., Falcon, L., Tucker, K. L. (2016). Social Support in Context and its Association with Three Healthy Diet Indicators. *The FASEB Journal*, 29(1 Supplement), 736–36.
- Bigornia, S. J., Harris, W. S., Falcon, L., Ordovás, J. M., Lai, C.-Q., Tucker, K. L. (2016). The Omega-3 Index Is Inversely Associated with Depressive Symptoms among Individuals with Elevated Oxidative Stress Biomarkers. *The Journal Of Nutrition*, 146(4), 758 - 766.

Guzzardo, M. T., Todorova, I. L. G., Adams, W. E., Falcon, L. (2016). 'Half Here, Half There': Dialogical Selves Among Older Puerto Ricans Of The Diaspora. *Journal of Constructivist Psychology*, 29(1), 51 - 65.

Art & Design

Afshar, Pouya

Solo Exhibitions

2016 Glendale Community College. *Mournbabymourn*. Glendale, Los Angeles, CA.

Group Exhibitions and Screenings

2016 Los Angeles County Museum of Art, *Rostam in Wonderland* series. *Islamic Art Now: Contemporary Art of the Middle East* Exhibition, January 2016. Los Angeles, CA.
http://www.lacma.org/sites/default/files/reading_room/Islamic_Art_Now_Part_Two_LACMA.pdf

Research and Creative Activities: Visual Works Cited, Reviewed, Image Publication, Catalog Listing

- 2016 *Lowell Sun* – UMass Grant to Help Lowell Kids Learn Folk Tales Of Southeast Asia, One Of Three Creative Economy Awards.
Amelia Pak-Harvey | October 10th, Lowell, Massachusetts.
http://www.lowellsun.com/todaysheadlines/ci_30453453/umass-grant-help-lowell-kids-learn-folk-tales
- 2016 *Boston Globe* – “UMass Lowell Faculty Members Invest in Community Projects”
Brenda J. Buote | September 16th, Boston, Massachusetts.
<https://www.bostonglobe.com/metro/regionals/north/2016/09/16/umass-lowell-faculty-members-invest-community-projects/ojHlePVdakuWyzZQINGAal/story.html>
- 2016 *UMass Lowell News* – “Animation Gets Personal for Professor”
Sheila Eppolito | June, Lowell, Massachusetts.
<https://www.uml.edu/News/stories/2016/Afshar-Animation.aspx>
- 2016 *UMass Lowell News* – “Three Projects Win Creative Economy Grants”
Katharine Webster | June, Lowell, Massachusetts.
<https://www.uml.edu/News/stories/2016/CreativeEconomyGrants.aspx>
- 2016 Un-framed – Q&A with Pouya Afshar, on *Rostam In Wonderland* by Stephanie Sykes | April, Los Angeles, California.
<https://unframed.lacma.org/2016/04/11/qa-pouya-afshar-rostam-wonderland>

- 2016 Aaran Gallery's *Shahnameh, The Perpetual Narrative* – by Akram Ahmadi Tavana | March, Tehran, Iran.
Mention and visual citation of *Installation for Seven Conquests of Story* in Aaran Gallery's booklet and catalogue.
Mention and visual citation of *Rostam in Wonderland* in Aaran Gallery's booklet and catalogue.
- 2016 Pembroke College, Cambridge University / *Shahnameh In Iranian Contemporary Art* – by Firouza Melville | March, United Kingdom.

Mention and visual citation of *Installation for Seven Conquests of Story* in the author's research paper for *Shahnameh Center for Persian Studies*, Pembroke College, Cambridge University.
[http://persian.pem.cam.ac.uk/sites/persian.pem.cam.ac.uk/files/uploads/event/s/files/Shahnameh The Perpetual Narrative.pdf](http://persian.pem.cam.ac.uk/sites/persian.pem.cam.ac.uk/files/uploads/event/s/files/Shahnameh%20The%20Perpetual%20Narrative.pdf)

Hess, Ingrid

Creative Works

Art Exhibition, Group

Hess, Ingrid, "Cut-paper Pieces about Peace," Boston Children's Hospital, (October 2015 - May 2016).

Hess Ingrid, "We need PEACE for our homes," The Brush Gallery, Juried Exhibition, (December 2015 - January 2016).

Misha Rabinovich

Journal Articles

Misha Rabinovich, "Raised on YouTube: Data Materialization Using Plants," Leonardo, Volume 49, Number 4, pp. 342-349 (2016)

Foley, C., Rabinovich, M. "Maintenance Art and Sharing Communities", The Maintainers, <http://themaintainers.org/program>. Accessed 7 April 2016.

Creative Works

Art on the Marquee, Boston Convention Center Boston, MA

Yes Men TRD-3000 Performance, Trump SoHo Hotel, New York, NY

Artspace Game On! Commission, Goffe Street Armory, New Haven, CT

CWOS, Artspace, New Haven, CT

Broadcast 2016, Keystone Gallery, Los Angeles, CA

Queens Correspondence School, Academic, New York, NY

3459, Toms Etching Studio, London, United Kingdom

3459, Flux Factory, New York, NY

Bemis Open Studios Exhibition, Bemis Contemporary Art Center, Omaha, NE

Grounded, Boston Cyberarts Gallery, Boston, MAfp

Michael Roundy

Creator and Race Director of the 2016 Lowell Kinetic Sculpture Race. Human powered, all-terrain sculptures made their way through the streets of Lowell, overcame a mud pit and navigated the Merrimack River. The event took place on September 23, 2016. Over 3500 people attended the event. Plans for the 2017 race are already under way. lowellkinetic.com

Imagine That: the Story of the First Kinetic Sculpture Race in Lowell

School of Criminology & Justice Studies

Fisher, William

Journal Articles

Curcio, G., Pattavina, A. F., Fisher, W. H. (2016). Gender Differences on the Road to Redemption. *Feminist Criminology*.

Morabito, M. S., Socia, K., Wik, A., Fisher, W. H. (2016). The nature and extent of police use of force in encounters with people with behavioral health disorders. *International Journal of Law and Psychiatry*.

Harris, Andrew

Book Chapters

- Lurigio, A.J., & Harris, A. (2016). Inmates with serious mental illnesses: Current knowledge and challenges for practice. In T. Blomberg, J.M. Brancale, K. Beaver, & W. Bales (Eds.), *Advancing Criminology and Criminal Justice Policy*. New York: Routledge.
- Lobanov-Rostovsky, C. & Harris, A. (2016). Reconciling sexual offender management policy, research, and practice. In Phenix, A. & Hoberman, H. (Eds.) *Sexual Offending: Predisposing Antecedents, Assessment, and Management*. New York: Springer
- Cubellis, M. A., & Harris, A. J. (2016). Civil Commitment of Sexual Predators. In Jeglic, E.L., & Calkins, C. (Eds.) *Sexual Violence: Evidence Based Policy and Prevention*. New York: Springer.

Journal Articles

- Socia, K., Harris, A. (November 2016). Evaluating public perceptions of the risk presented by registered sex offenders: Evidence of crime control theater? *Psychology, Public Policy, and Law*, 22(4), 375-385.
- Harris, A., Socia, K. (October (4th Quarter/Autumn) 2016). What's in a Name? Evaluating the Effects of the "Sex Offender" Label on Public Opinions and Beliefs. *Sexual Abuse*, 28(7), 660.
- Harper, C. & Harris, A. (2016). Applying moral foundations theory to understanding public views of sexual offending. *Journal of Sexual Aggression*. Published online ahead of print, <http://dx.doi.org/10.1080/13552600.2016.1217086>
- Harris, A., Walfield, S.M., Shields, R. T., & Letourneau, E. J. (2016). Collateral consequences of juvenile sex offender registration and notification: results from a survey of treatment providers. *Sexual Abuse: A Journal of Research and Treatment*, 28(8), 770-790.
- Socia, K.M. & Harris, A. (2016). Evaluating public perceptions of the risk presented by registered sex offenders: Evidence of Crime Control Theater? *Psychology, Public Policy, and Law*. 22(4), 375
- Harris, A.J. & Socia, K. (2016). What's in a name? Evaluating the impacts of the "sex offender" label on public opinions and beliefs. *Sexual Abuse: A Journal of Research & Treatment*. 28(7), 660-678.
- Cubellis, M., Walfield, S., and Harris, A. (2016). Collateral consequences and effectiveness of sex offender registration and notification: Law enforcement perspectives. *International Journal of Offender Therapy and Comparative Criminology*. Published online ahead of print.
- Harris, A., Lobanov-Rostovsky, C., Levenson, J., Walfield, S. (2016). Law enforcement perspectives on sex offender registration & notification: Effectiveness, challenges, and policy priorities. *Criminal Justice Policy Review*. Published online ahead of print, DOI: 0887403416651671.

Harris, A. & Cudmore, R. (2016) Community experience with public sex offender registries in the United States: A national survey. *Criminal Justice Policy Review*. Published online ahead of print.

Jordan, Kareem

Journal Articles

Jordan, K. L. (2016). Juvenile Waivers. *The Encyclopedia of Crime & Punishment*.

Jordan, K. L., McNeal, B. A. (August 2016). Juvenile Penalty or Leniency: Sentencing of Juveniles in the Criminal Justice System. *Law & Human Behavior (American Psychological Association)*, 40(4), 387-400.

Jordan, K. L., Maroun, R. (March 2016). Minority threat and criminal sentencing: examining juveniles in the adult criminal justice system. *Journal of Crime & Justice*, 39(1), 41-54.

Kras, Kimberly (New Faculty Member)

Journal Articles

Kras, K., Pleggenkuhle, B., Huebner, B. M. (2016). A New Way of Doing Time on the Outside: Sex Offenders' Pathways In and Out of a Transitional Housing Facility. *International Journal of Offender Therapy & Comparative Criminology*, 60(5), 512 - 534.

Kras, K., Blasko, B. L. (2016). Pathways to Desistance Among Men Convicted of Sexual Offenses. *International Journal of Offender Therapy & Comparative Criminology*, 60(15), 1738 - 1755.

Taxman, F. S., Kras, K. (2016). Reentry from incarceration to community. *Advancing Criminology and Criminal Justice Policy*, 299.

Kras, K., Blasko, B. L. (September 2016). Pathways to Desistance Among Men Convicted of Sexual Offenses: Linking Post Hoc Accounts of Offending Behavior and Outcomes. *International Journal of Offender Therapy and Comparative Criminology*.

Kras, K., Pleggenkuhle, B., Huebner, B. M. (April 2nd Quarter/Spring) 2016). A New Way of Doing Time on the Outside: Sex Offenders' Pathways In and Out of a Transitional Housing Facility. *International Journal of Offender Therapy and Comparative Criminology*, 60(5), 512-534.

Morabito, Melissa

Journal Articles

- Yu, C.-H., Ding, W., Morabito, M. S., Chen, P. Hierarchical Spatio-Temporal Pattern Discovery and Predictive Modeling. *Transactions in Knowledge and Data Engineering* 28 (4), 979-993.
- Morabito, M. S., Pattavina, A. F., Williams, L. (2016). Active representation and police response to sexual assault complaints. *Journal of Crime and Justice*, 1–14.
- Morabito, M. S., Pattavina, A. F., Williams, L. (2016). It all just piles up: challenges to victim credibility accumulate to influence sexual assault case processing. *Journal of Interpersonal Violence*.
- Morabito, M. S., Socia, K., Wik, A., Fisher, W. H. (2016). The nature and extent of police use of force in encounters with people with behavioral health disorders. *International Journal of Law and Psychiatry*.
- Estienne, E., Morabito, M. S. (May 2016). Understanding differences in crime reporting practices: a comparative approach. *International Journal of Comparative and Applied Criminal Justice*, 40(2), 123-143.
- Pattavina, A. F., Morabito, M. S., Williams, L. (April (2nd Quarter/Spring) 2016). Examining connections between the police and prosecution in sexual assault case processing: Does the use of exceptional clearance facilitate a downstream orientation? *Victims & Offenders*, 11(2), 315-334.
- Morabito, M.S., Socia, K, Wik, A & Fisher, W (2016). "The Nature and Extent of Police Use of Force in Encounters with People with Behavioral Health Disorders". *International Journal of Law and Psychiatry*.
<http://dx.doi.org/10.1016/j.ijlp.2016.10.001>

Pattavina, April

Journal Articles

- Morabito, M. S., Pattavina, A. F., Williams, L. (2016). Active representation and police response to sexual assault complaints. *Journal of Crime and Justice*, 1–14.
- Curcio, G., Pattavina, A. F., Fisher, W. H. (2016). Gender Differences on the Road to Redemption. *Feminist Criminology*.
- Morabito, M. S., Pattavina, A. F., Williams, L. (2016). It all just piles up: challenges to victim credibility accumulate to influence sexual assault case processing. *Journal of Interpersonal Violence*.

Pattavina, A. F., Morabito, M. S., Williams, L. (April (2nd Quarter/Spring) 2016). Examining connections between the police and prosecution in sexual assault case processing: Does the use of exceptional clearance facilitate a downstream orientation? *Victims & Offenders*, 11(2), 315-334.

Perliger, Arie (New Faculty Member)

Book Chapters

Gallya Lahav and Arie Perliger. 2016. "Immigrant Integration, Political Radicalization and Terrorism In Europe: Some Preliminary Insights from the Early Millennium," in Gary Freeman (Ed.) *Migration and Social Policy*, New York: Edward Elgar Publishing, pp. 265-291.

Journal Articles

Post, R., Hudson, D., Mitchell, D., Bell, P., Perliger, A., Williams, R. (2016). Rethinking the Water-Food-Climate Nexus and Conflict: An Opportunity Cost Approach. *Applied Economic Perspectives & Policy*, 38(4), 563-577.

Perliger, A., Koehler-Derrick, G., Pedahzur, A. (2016). The Gap Between Participation and Violence: The Challenges of Aggregation in Terrorist 'Profile' Studies. *International Studies Quarterly*, 60(2) 220-229.

Post Riley, Hudson Darren, Mitchell Donna, Bell Patrick, Perliger Arie and Williams Ryan. 2016. "Rethinking the Water-Food-Climate Nexus and Conflict: An Opportunity Cost Approach," *Applied Economics Perspectives and Policy*, 38 (4): 563-577.

Portnoy, Jill (New Faculty Member)

Journal Articles

Raine, A., Cheney, R. A., Ho, R., Portnoy, J., Liu, J., Soyfer, L., Hibbeln, J., Richmond, T. S. (2016). Nutritional supplementation to reduce child aggression: a randomized, stratified, single-blind, factorial trial. *Journal of Child Psychology and Psychiatry*.

Rydberg, Jason

Book Chapters

Rydberg, J. (2016). Albert Fish. *Crimes of the Centuries: Notorious Crimes, Criminals, and Criminal Trials in American History*. ABC-CLIO.

Grommon, E., Rydberg, J. (2016). Correctional Interventions and Outcomes. *The Handbook of Measurement Issues in Criminology and Criminal Justice*. Wiley.

Socia, K., Rydberg, J. (2016). Sex Offender Legislation and Policy. *Advancing Criminology and Criminal Justice Policy*. Routledge.

Journal Articles

Rydberg, J., Grommon, E. (2016). A Multimethod Examination of the Dynamics of Recidivism During Reentry. *Corrections: Policy, Practice and Research*, 1(1), 40–60.

Ray, B., Grommon, E., Rydberg, J. (2016). Anticipated Stigma and Defensive Individualism During Postincarceration Job Searching. *Sociological Inquiry*, 86(3), 348–371.

Grommon, E., Rydberg, J. (2016). Desisters in the making? Exploring the capacity to desist during community transition among a small longitudinal panel of releasees. *Journal of Crime and Justice*, 1–19.

Rydberg, J., Grommon, E., Huebner, B., Pleggenkuhle, B. (2016). Examining the correlates of sex offender residence restriction violation rates. *Journal of Quantitative Criminology*, 1–23.

Clark, K., Rydberg, J. (2016). The effect of institutional educational programming on prisoner misconduct. *Criminal Justice Studies*, 29(4), 325–344.

Rydberg, J., Stone, R., McGarrell, E. F., Kleck, G. (2016). Utilizing Incident-Based Crime Data to Inform Strategic Interventions A Problem Analysis of Violence in Michigan. *Justice Research and Policy*, 17(1), 3–27.

Shortland, Neil

Journal Articles

Palasinski, M., Shortland, N. (2016). Individual determinants of punitive attitudes towards sexual and domestic abuse offenders. *Safer Communities*, 15(3), 125-133.

Horgan, J., Altier, M. B., Shortland, N., Taylor, M. (2016). Walking away: the disengagement and de-radicalization of a violent right-wing extremist. *Behavioral Sciences of Terrorism and Political Aggression*, 1-15.

Horgan, J., Shortland, N., Abbasciano, S., Walsh, S. (September 2016). Actions Speak Louder than Words: A Behavioral Analysis of 183 Individuals Convicted for Terrorist Offenses in the United States from 1995 to 2012. *Journal of forensic sciences*, 61(5), 1228-1237.

Shortland, N. D., & Palasinski, M. (2016). Mirror mirror on the wall which is the most convincing of them all? Exploring anti-domestic violence messages. *Journal of Interpersonal Violence*.

Socia, Kelly

Book Chapters

Socia, K., Rydberg, J. (2016). Sex Offender Legislation and Policy. *Advancing Criminology and Criminal Justice Policy*. Routledge.

Journal Articles

Briones-Robinson, R., Powers, R. A., Socia, K. (2016). Sexual Orientation Bias Crimes. *Criminal Justice and Behavior*, 43(12), 1688-1709.

Walfield, S. M., Socia, K., Powers, R. A. (2016). Religious motivated hate crimes: Reporting to law enforcement and case outcomes. *American Journal of Criminal Justice*.

Morabito, M. S., Socia, K., Wik, A., Fisher, W. H. (2016). The nature and extent of police use of force in encounters with people with behavioral health disorders. *International Journal of Law and Psychiatry*.

Brown, E. K., Socia, K. (2016). Twenty-first century punitiveness: Social sources of punitive American views reconsidered. *Journal of Quantitative Criminology*.

Socia, K., Harris, A. (November 2016). Evaluating public perceptions of the risk presented by registered sex offenders: Evidence of crime control theater? *Psychology, Public Policy, and Law*, 22(4), 375-385.

Harris, A., Socia, K. (October (4th Quarter/Autumn) 2016). What's in a Name? Evaluating the Effects of the "Sex Offender" Label on Public Opinions and Beliefs. *Sexual Abuse*, 28(7), 660.

Socia, K., Brown, E. K. (June 2016). "This Isn't About Casey Anthony Anymore": Political Rhetoric and Caylee's Law. *Criminal Justice Policy Review*, 27(4), 348.

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Barish, Shelley

Creative Works

Scenic Designer, Lyric Stage Company of Boston, Boston, MA. *Mr. Burns*, directed by A. Nora Long, April 2016.

Scenic Designer, Cortland Repertory Theatre, Cortland, NY. *West Side Story* directed by Nathaniel Shaw, June 2016.

Scenic Designer, Cortland Repertory Theatre, Cortland, NY. *Cards on the Table* directed by Kerby Thompson, August 2016.

Scenic Designer, Bristol Valley Theatre, Naples, NY. *Jekyll and Hyde* directed by Karin Bowersock August 2016.

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Lim, Sandra

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Lim, S. Fall 2016. "Realism." *Prodigal*. Issue 3. A KINEMA. 87-88.

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Performances

Poetry Readings

"Boston Originals," Harvard University, Cambridge, MA (December 9)

Hong Kong Baptist University, Hong Kong (November 12)

George Mason University, Fairfax, VA (October 20)

Massachusetts Poetry Festival, Salem, MA (May 16)

St. Lawrence University Writers Series, Canton, NY (April 17)

WORLD Series, 2016 Carol Ann Donahue Poet at Russell Sage College, Troy, NY (April 13)

AWP, Danny's Los Angeles, CA (April 2)

Belladonna* Reading Series, Queens College, NY (March 14)

Black Mountain Institute, University of Nevada, Las Vegas, NV (February 25)

University of Reno, Reno, NV (February 24)

UC Davis, Davis, CA (February 16)

Haverford College, Haverford, PA (February 4)

Warren Wilson College, Swannonoa, NC (January 3)

Marshall, Bridget

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Stanton, Maureen

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Carlsmith, Christopher

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Case, Alexander

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Greher, Gena

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Philosophy

Evans, Nicholas (New Faculty Member)

Book Chapters

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Furey, Heidi

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Smith-Walter, Aaron (New Faculty Member)

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Block, Stephanie

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- Dutta, U. (2016). Prioritizing the Local in an Era of Globalization: A Proposal for Decentering Community Psychology. *American Journal of Community Psychology*, 58(3-4), 329-338.
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Gonzales, Joseph (New Faculty Member)

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- Merriman, K., Turner, L., Galizzi, M., Haynes, M. C. (2016). Pay mix policies as (dis)incentives in motivated job choice decisions. *Translational Issues in Psychological Science, 2*(2), 184 - 191.

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Beddoes, Kacey

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Ryan, Charlotte

Journal Articles

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World Languages and Cultures Department

Anderson, Hope (New Faculty Member)

Journal Articles

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Matz, Maria

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Postman, Sheryl

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Salmon, Carole

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Samb, Mamadou (New Faculty Member)

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Swenson, Kirsten

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College of Health Sciences

Biomedical & Nutritional Sciences

Garelnabi, Mahdi

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Goodyear, Nancy

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Gui-Xin, He

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Handelman, Garry

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Lu, Chung-Dar

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Lyubchenko, Taras

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Mangano, Kelsey

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Noel, Sabrina (New Faculty Member)

Journal Articles

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Tucker, Katherine

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Zhang, Boce (New Faculty Member)

Book Chapter

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School of Nursing

Abdallah, Lisa

Journal Articles

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El Ghaziri, Mazen

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Fantasia, Heidi

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Gautam, Ramraj

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Knight, Margaret

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Mawn, Barbara

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McDonough, Annette

Journal Articles

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Melillo, Karen Devereaux

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Quinn, Brenna

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VanEtten, Deborah

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Zhang, Yuan

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Bello, Dhimiter

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Brunette, Maria

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Buchholz, Bryan

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Champagne, Nicole

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Cifuentes, Manuel

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Punnett, Laura

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Quinn, Margaret

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Slatin, Craig

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Thind, Herpreet

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Tickner, Joel

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Walter, Angela (New Faculty Member)

Journal Articles

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Woskie, Susan

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James, Eric

Journal Articles

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Kim, SoJung

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Lopes, Alexandre

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Maiaru, Marianna (New Faculty Member)

Conference Proceedings

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Mao, Zhu

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Niemi, Eugene

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Niezrecki, Christopher

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Pingle, Pawan

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Putko, Michele

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Raptis, Ioannis

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Reynaud, Emmanuelle

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Sherwood, James

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Shina, Sammy

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Sun, Hongwei

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Trelles, Juan

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- C. Chazelas, A. Vardelle, J. P. Trelles, “The main issues to address in modeling plasma spray torch operation”, 2016 International Thermal Spray Conference (ITSC 2016), Shanghai, China, May 10 - 12, 2016.

Willis, David

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Liu, Fuqiang (New Faculty Member)

Journal Articles

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Barry, Carol

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Budhlall, Bridgette

Journal Articles

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Huang, Jan

Journal Articles

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Johnston, Stephen

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Kazmer, David

Journal Articles

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Malloy, Robert

Journal Articles

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Mead, Joey

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Nagarajan, Ramaswamy

Journal Articles

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Schmidt, Daniel

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Sobkowicz Kline, Margaret

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Farahanchi, A., Malloy, R. A., Sobkowicz Kline, M. J. (July 2016). Effects of ultrahigh speed twin screw extrusion on the thermal and mechanical degradation of polystyrene. *Polymer Engineering & Science*, 56(7), 743-751.

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Bobek, Eliza

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Davidson, Judith

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Newton, Xiaoxia

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Uy, Phitsamay

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Melikechi, Nouredine

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Hochberg, Rick

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Konow, Nicolai (New Faculty Member)

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Shea, Thomas

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Barsegov, Valeri

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Christodouleas, Dionysios (New Faculty Member)

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Gkikas, Manos (New Faculty Member)

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Marx, Kenneth

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Ruths, Marina

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Ryan, David

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Sun, Yuyu

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Whitten, James

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Wolf, Lawrence

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Kamal, Archana (New Faculty Member)

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Joseph George

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Feldman, Elana

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Geleilate, José-Mauricio (New Faculty Member)

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Steckler, Erica (New Faculty Member)

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Ciuchta, Michael

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Mehta, Ashwin

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Morgan, Todd

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Ross, Spencer

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Talay, Mehmet

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Yim, Mark Yi-Cheon (New Faculty Member)

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Chen, Yao

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